



Activities





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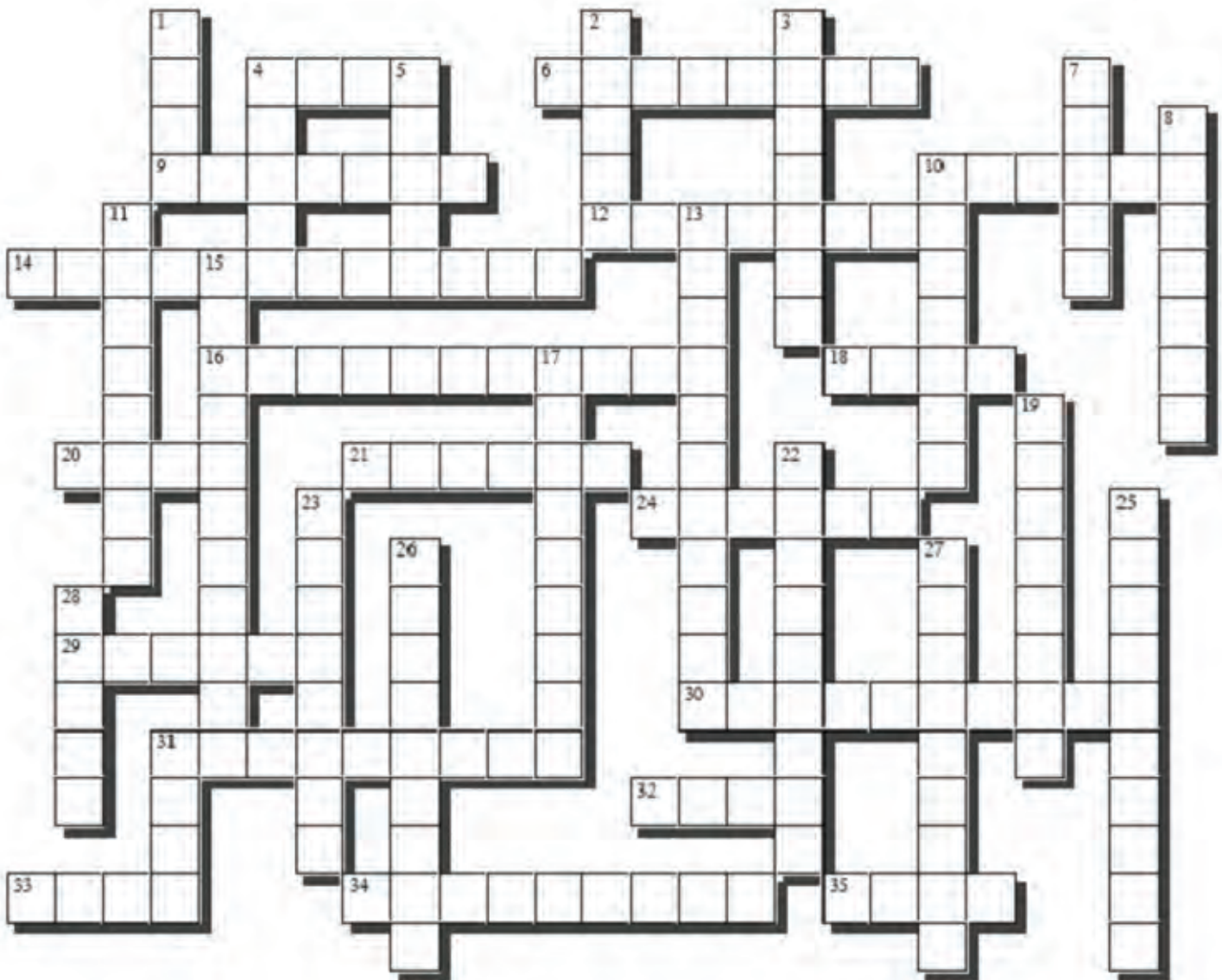
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AGRICULTURAL ENGINEER

Activity 1.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Agricultural Engineer career page to find the answers for many of the clues.



AGRICULTURAL ENGINEER

Activity 1.1 Crossword

CLUES:

Across Clues

4. Dirt (4)
6. Packaging and transporting a commodity (8)
9. Act of cultivation (7)
10. Provide details (6)
12. Material that can be used (8)
14. Preservation (12)
16. Conditions in which an organism lives (11)
18. River sediment (4)
20. Examine (4)
21. Machine or tool used for a specific task (6)
24. Capacity to do work (6)
29. Provide information and options (6)
30. Trial (10)
31. Distribution, conservation and use of water (9)
32. Time taken for earth to orbit the sun (4)
33. Storage shelter (4)
34. Construction (9)
35. Movement of air (4)

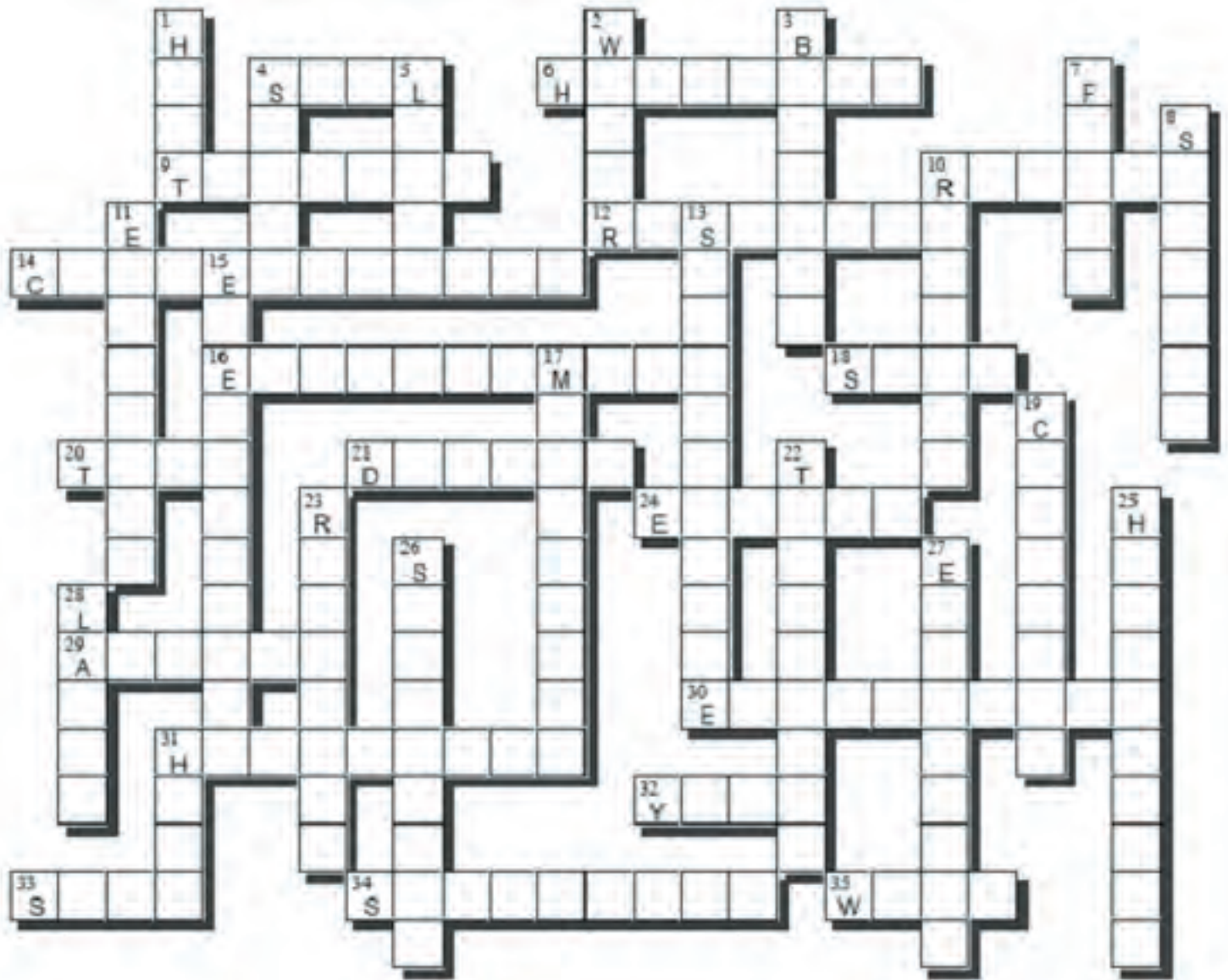
Down Clues

1. Warmth (4)
2. Liquid compound of hydrogen and oxygen (5)
3. Fuel made from material that has been grown (7)
4. Pertaining to the sun (5)
5. Visible radiation (5)
7. Inundation of normally dry land with water (5)
8. Space used for storing (7)
10. Observations and measurements from an experiment (7)
11. Person who designs, constructs and maintains machinery, property structures and systems (8)
13. Able to be maintained (11)
15. Flow of electrons (11)
17. Collection of assembled components that do work (9)
19. Electronic device that processes data (8)
22. Move something from one place to another (9)
23. Investigate (8)
25. Educated guess (10)
26. Object that orbits around another (9)
27. Tools (9)
28. Intense light beam (5)
31. Height of stored water above outlet (4)



AGRICULTURAL ENGINEER

Activity 1.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Agricultural Engineer career page to find the answers for many of the clues.



AGRICULTURAL ENGINEER

Activity 1.2 Crossword with Hints

CLUES:

Across Clues

4. Dirt (4)
6. Packaging and transporting a commodity (8)
9. Act of cultivation (7)
10. Provide details (6)
12. Material that can be used (8)
14. Preservation (12)
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Down Clues

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2. Liquid compound of hydrogen and oxygen (5)
3. Fuel made from material that has been grown (7)
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25. Educated guess (10)
26. Object that orbits around another (9)
27. Tools (9)
28. Intense light beam (5)
31. Height of stored water above outlet (4)



AGRICULTURAL ENGINEER

Activity 1.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

R	Y	D	S	X	S	O	L	A	R	S	Y	T	D	I	I	A	C	G	B	Y	W	P	C	K
T	J	F	S	T	L	U	S	E	R	G	D	R	O	A	B	D	D	U	W	I	N	D	F	U
W	R	E	T	A	W	Z	P	E	J	H	E	A	T	F	H	S	Q	V	M	B	N	X	J	G
F	T	G	F	R	E	S	O	U	R	C	E	W	G	O	J	L	O	M	I	E	B	L	S	I
E	M	D	E	N	V	I	R	O	N	M	E	N	T	C	U	T	R	O	P	S	N	A	R	T
K	L	T	C	O	N	S	E	R	V	A	T	I	O	N	U	T	R	R	P	X	E	S	U	Z
E	D	E	E	D	H	F	S	E	B	I	O	F	U	E	L	J	Q	T	R	W	U	O	T	I
W	V	S	C	S	B	T	I	T	C	Q	Y	T	K	S	I	S	E	H	T	O	P	Y	H	D
O	X	I	R	T	T	C	F	L	S	T	C	Z	H	C	R	A	E	S	E	R	X	I	E	X
Q	X	I	R	S	R	R	V	I	T	V	A	G	B	V	H	H	E	G	A	L	L	I	T	U
H	H	J	E	T	M	I	P	S	R	P	E	K	N	Z	R	E	T	U	P	M	O	C	Q	M
A	L	V	S	O	A	G	C	X	U	S	U	S	T	A	I	N	A	B	L	E	T	U	Z	P
J	Q	S	A	R	C	B	N	I	C	R	I	J	N	Q	A	T	N	E	M	P	I	U	Q	E
E	J	D	L	A	H	R	I	T	T	Y	G	O	L	O	R	D	Y	H	V	F	K	N	X	K
S	T	M	M	G	I	E	H	J	U	Y	Z	B	H	A	N	D	L	I	N	G	D	N	F	H
O	H	M	J	E	N	P	E	P	R	E	Y	D	E	V	I	C	E	O	K	A	A	X	J	E
L	G	U	K	W	E	O	A	B	E	E	N	G	I	N	E	E	R	E	D	O	O	L	F	Q
Q	I	N	Q	L	R	R	D	E	X	P	E	R	I	M	E	N	T	D	E	H	S	E	B	V
O	L	A	I	C	Y	T	E	V	F	T	B	F	P	R	A	E	Y	Y	G	R	E	N	E	X
S	A	T	E	L	L	I	T	E	S	O	I	L	L	K	M	U	N	U	O	H	R	A	H	T

WORDLIST

CONSERVATION
EXPERIMENT
MACHINERY
COMPUTER
BIOFUEL
DEVICE
FLOOD
SOLAR
SHED
WIND

ELECTRICITY
HYPOTHESIS
SATELLITE
ENGINEER
HANDLING
ENERGY
LASER
WATER
SILT
YEAR

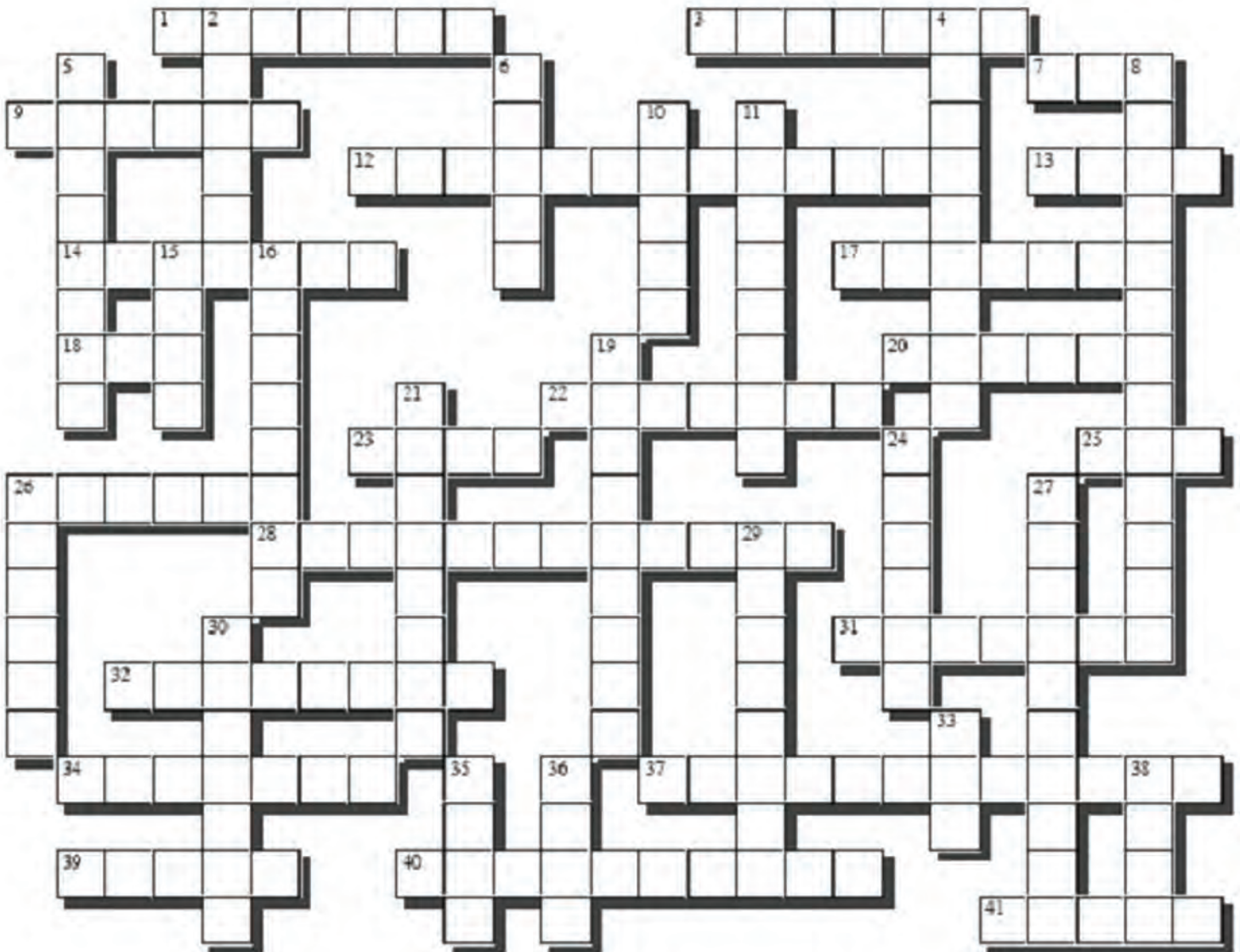
ENVIRONMENT
EQUIPMENT
STRUCTURE
RESEARCH
RESULTS
REPORT
LIGHT
HEAD
SOIL

SUSTAINABLE
HYDROLOGY
TRANSPORT
RESOURCE
ADVISE
STORAGE
TILLAGE
HEAT
TEST



AGRICULTURAL SCIENTIST

Activity 2.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Agricultural Scientist career page to find the answers for many of the clues.



AGRICULTURAL SCIENTIST

Activity 2.1 Crossword

CLUES:

Across Clues

1. Teach (7)
3. The study of matter and energy (7)
7. Electronic source of information (3)
9. The complement of chromosomes found in a cell (6)
12. An organism too small to be seen with the naked eye (13)
13. Plants grown for food or fibre (4)
14. Impairment of the normal function of an organism (7)
17. Plants grazed by livestock (7)
18. Three (3)
20. Increase in size (6)
22. A preparation of dead or weakened pathogens used to produce immunity (7)
23. Types of insects (4)
25. Charged atom (3)
26. An animal or plant in the early stages of development (6)
28. The study of microorganisms (12)
31. The study of organisms in their environment (7)
32. Improving plants or animals by selecting individuals or types to be mated (8)
34. The study of living things (7)
37. The study of disease (12)
39. Kingdom that includes mushrooms and yeasts (5)
40. Substance added to soil to increase its productivity (10)
41. A repeated series of events (5)

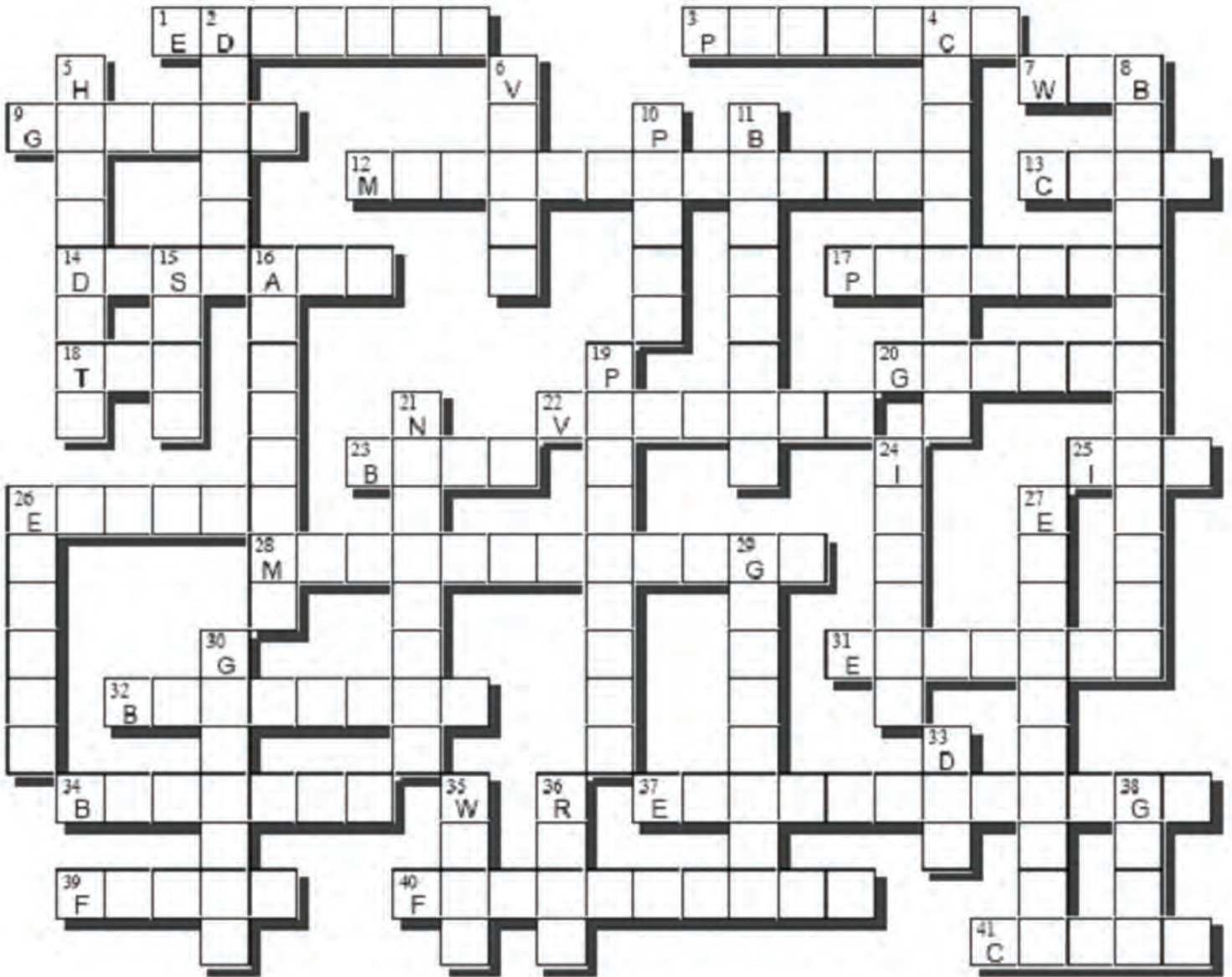
Down Clues

2. Injury or harm that reduces function (6)
4. The study of substances (9)
5. Passing genetic characteristics from one generation to another (8)
6. Microscopic organism consisting of genetic material in a protein coat (5)
8. The application of scientific principles to modify organisms (13)
10. Protein fragment that causes disease (5)
11. Single celled organisms that cause disease (8)
15. Dirt (4)
16. The study of crop and pasture production (8)
19. The study of changes to an organism caused by disease (9)
21. Substance that nourishes a plant or animal (8)
24. Animal with six legs (6)
26. Not native (6)
27. The study of insects (10)
29. The study of heredity (8)
30. The study of rocks (7)
33. Cease living (3)
35. A plant in the wrong place (4)
36. One amount measured against another (4)



AGRICULTURAL SCIENTIST

Activity 2.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Agricultural Scientist career page to find the answers for many of the clues.



AGRICULTURAL SCIENTIST

Activity 2.2 Crossword with Hints

CLUES:

Across Clues

1. Teach (7)
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36. One amount measured against another (4)



AGRICULTURAL SCIENTIST

Activity 2.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

Q	M	L	X	D	G	N	W	V	S	Z	S	S	W	B	G	E	O	L	O	G	Y	C	X	X
P	E	I	D	N	O	D	J	G	F	E	R	T	I	L	I	S	E	R	G	M	M	E	G	F
P	M	S	I	N	A	G	R	O	O	R	C	I	M	H	B	U	G	S	E	C	R	O	L	F
R	I	Z	L	B	A	C	T	E	R	I	A	G	A	H	U	T	N	F	Y	U	A	C	R	D
I	A	B	P	N	Y	W	E	E	D	D	Z	H	P	D	B	O	O	G	T	L	P	E	E	E
O	J	Z	M	I	C	R	O	B	I	O	L	O	G	Y	I	W	O	S	Q	I	X	T	Y	N
N	B	N	R	Y	R	T	S	I	M	E	H	C	P	V	W	L	A	K	D	P	M	A	G	I
D	I	I	R	C	M	F	B	K	G	U	G	W	U	G	O	P	B	G	A	Z	A	C	O	C
W	U	R	O	D	Y	P	V	F	A	G	N	E	T	N	T	S	E	T	E	N	G	U	L	C
E	R	G	T	L	L	W	V	U	Y	E	I	V	H	J	O	N	H	S	M	C	R	D	O	A
B	K	N	M	U	O	D	Z	N	G	A	D	C	G	I	O	O	A	H	I	C	O	E	I	V
O	F	B	C	S	C	G	S	G	O	N	E	R	L	M	L	E	F	T	J	W	N	U	M	K
D	E	R	O	Y	U	C	Y	I	L	T	E	O	E	O	S	M	O	H	F	I	O	H	E	J
I	O	M	C	K	I	R	P	I	O	V	R	H	G	I	T	X	H	S	S	C	M	C	D	V
P	H	L	B	T	E	F	I	I	C	Q	B	Y	D	F	E	L	W	A	L	T	Y	J	I	X
J	E	H	E	R	E	N	B	V	E	V	N	P	P	K	S	C	I	S	Y	H	P	T	P	O
Y	U	N	Q	N	Y	T	C	E	S	N	I	G	R	O	W	T	H	D	R	A	T	E	E	R
U	E	S	I	A	I	O	Y	O	Q	Y	G	O	L	O	M	O	T	N	E	N	Z	D	P	R
G	G	Y	X	I	K	L	C	J	R	K	T	B	K	T	N	E	I	R	T	U	N	V	F	F
V	G	B	M	O	H	E	R	E	D	I	T	Y	Z	U	K	I	R	E	G	A	M	A	D	U

WORDLIST

- | | | | |
|---------------|--------------|---------------|--------------|
| AGRONOMY | MICROBIOLOGY | GENETICS | EPIDEMIOLOGY |
| ENTOMOLOGY | ECOLOGY | BIOTECHNOLOGY | CROP |
| PASTURE | GROWTH | NUTRIENT | FERTILISER |
| PATHOLOGY | BREEDING | DISEASE | SOIL |
| CHEMISTRY | PHYSICS | GEOLOGY | BIOLOGY |
| MICROORGANISM | FUNGI | BACTERIA | VIRUS |
| PRION | HEREDITY | GENOME | EMBRYO |
| VACCINE | EXOTIC | INSECT | CYCLE |
| DAMAGE | EDUCATE | WEB | TRI |
| ION | GOAL | DIE | WEED |
| BUGS | RATE | | |



BUSINESS LOAN

Activity 3.1 Maths Activity

A Business Loan

A woolgrower is planning to increase the size of his superfine Merino flock but will need more land to grow enough pasture to feed them. The farm next door is for sale. To buy the neighbouring property the woolgrower will need to mortgage his own property.

The loan is worth \$300,000. As it will be a business loan the interest rates are usually higher than they would be for a housing loan. The woolgrower has made enquiries at several banks and narrowed the choice to three different options:

1. Fixed interest rate loan at 9 percent for 20 years.
2. Fixed interest rate loan at 8 percent for 15 years.
3. A 15-year loan with a fixed interest rate for the first 5 years at 8.5 percent then variable interest rates for the remaining term of the loan.

Note

- For the purpose of this exercise it has been assumed that a fixed rate mortgage of up to twenty years would be available.
 - A fixed rate mortgage has a set interest rate for the term of the loan.
 - The interest rate in a variable rate mortgage varies relative to official interest rates.
 - Repayments are made each month and include both the principal (initial value of the loan) and the interest.
- a. Use the Monthly Repayment Table on the following page to work out the repayments on each option. Calculate the variable interest rate for both a potential rise (10%) and a fall (7%) in interest rates. Multiply the monthly rate on the table by 300 to get the correct amount.
 - b. Calculate the total value of the loan for each option. Which one would you choose?



BUSINESS LOAN

Activity 3.1 Maths Activity

Option	Term (Years)	Interest Rate	Monthly Repayments ₹	No. of Months	Total value of loan ₹
1	20	9%			
2	15	8%			
3a	5	8.5%			
	10	10%			
Total 3a					
3b	5	8.5%			
	10	7%			
Total 3b					



BUSINESS LOAN

Activity 3.1 Maths Activity

MONTHLY REPAYMENTS TABLE						
Principal and Interest Per \$1000 Borrowed						
Interest rate	Term of Loan - Years					
	5	10	15	20	25	30
5.0%	18.87	10.61	7.91	6.60	5.85	5.37
5.5%	19.01	10.85	8.17	6.88	6.14	5.68
6.0%	19.33	11.10	8.44	7.16	6.44	6.00
6.5%	19.57	11.35	8.71	7.46	6.75	6.32
7.0%	19.80	11.61	8.99	7.75	7.07	6.65
7.5%	20.04	11.87	9.27	8.06	7.39	6.99
8.0%	20.38	12.13	9.56	8.36	7.72	7.34
8.5%	20.52	12.40	9.85	8.68	8.05	7.69
9.0%	20.76	12.67	10.14	9.00	8.39	8.05
9.5%	21	12.94	10.44	9.32	8.74	8.41
10.0%	21.25	13.22	10.75	9.65	9.09	8.78



BUSINESS LOAN

Activity 3.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

N	I	E	E	F	L	A	G	E	L	A	F	A	U	V	Z	E	J	T	I	S	O	P	E	D
W	T	H	U	K	P	A	M	D	Z	E	C	K	E	B	A	A	T	S	E	R	E	T	N	I
K	P	E	I	A	V	M	K	R	E	O	R	C	E	G	A	G	T	R	O	M	T	P	G	A
S	Y	S	G	P	C	G	L	S	O	P	O	V	O	C	H	E	Q	U	E	A	A	R	D	L
I	N	S	T	A	L	M	E	N	T	F	R	S	S	U	N	W	H	V	O	R	X	I	L	X
N	O	I	N	U	T	I	D	E	R	C	N	E	V	T	N	O	U	R	H	G	A	N	A	Y
X	I	M	A	T	U	R	I	T	Y	W	Y	O	C	G	N	T	I	O	H	I	T	C	N	N
B	A	L	A	N	C	E	S	H	E	E	T	T	I	I	R	E	K	T	Y	N	I	I	D	Z
P	B	F	Y	N	T	T	R	M	N	H	N	Q	I	T	A	O	M	E	A	V	O	P	T	Y
M	W	G	H	I	B	N	A	X	X	Q	K	S	T	R	A	T	T	E	L	N	A	A	T	
E	D	Z	R	A	A	E	U	D	X	L	E	N	B	V	U	C	I	I	S	P	F	L	X	U
C	N	E	O	G	N	M	U	Z	B	S	L	N	A	T	N	C	I	O	D	U	I	N	O	D
N	A	X	M	L	K	Y	Y	S	T	E	S	S	A	B	P	O	E	L	N	E	J	N	I	E
A	O	I	U	A	R	A	G	R	Q	U	E	S	T	A	T	E	Z	S	P	V	R	D	G	F
N	L	T	I	T	U	P	T	E	T	A	R	T	S	E	R	E	T	N	I	P	H	C	A	A
I	E	F	M	I	P	B	U	I	L	D	I	N	G	S	O	C	I	E	T	Y	A	L	O	U
F	M	E	E	P	T	N	A	O	L	K	B	A	W	U	E	C	N	A	N	I	F	U	T	L
E	O	E	R	A	C	Q	E	Q	U	I	T	Y	X	B	G	T	I	D	E	R	C	T	L	T
R	H	O	P	C	Y	B	P	O	E	C	N	A	R	U	S	N	I	E	T	B	E	D	I	N
W	Y	Y	J	R	O	V	E	R	D	R	A	F	T	D	E	B	T	O	R	Q	Z	F	G	F

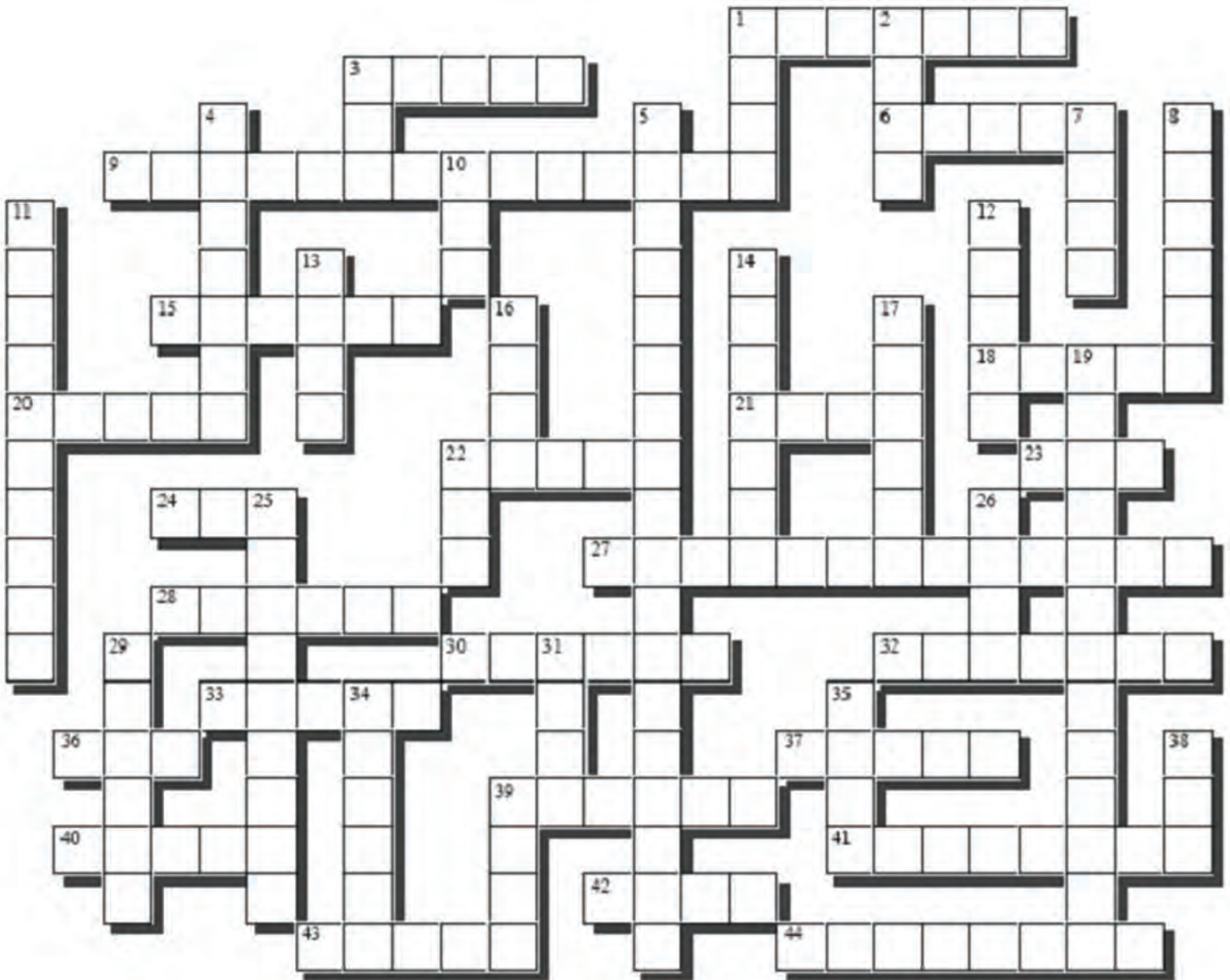
WORDLIST

- | | | | |
|----------------|--------------|-----------------|-----------------|
| ACCOUNTKEEPING | ADJUSTMENTS | APPLICATIONFORM | ASSETS |
| BALANCESHEET | BANK | BANKRUPTCY | BUILDINGSOCIETY |
| CAPITALGAIN | CHEQUE | CREDIT | CREDITOR |
| CREDITUNION | DEBT | DEBTOR | DEFAULT |
| DEPOSIT | DEPRECIATION | EQUITY | ESTATE |
| EXITFEE | FEES | FINANCE | HOMELOAN |
| INFLATION | INSTALMENT | INSURANCE | INTEREST |
| INTERESTRATE | LANDTAX | LEGALFEE | LOAN |
| MARGIN | MATURITY | MORTGAGE | OVERDRAFT |
| PAYMENT | PREMIUM | PRINCIPAL | REFINANCE |
| SECURITY | TAXATION | | |



CLOTHING PRODUCTION

Activity 4.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Clothing Production Worker career page to find the answers for many of the clues.



CLOTHING PRODUCTION

Activity 4.1 Crossword

CLUES:

Across Clues

1. Cloth (7)
3. Piece of paper (5)
6. Water vapour (5)
9. Check final garments against specification sheets (14)
15. Plan (6)
18. Intense light beam (5)
20. Luster (5)
21. Bring together (4)
22. Appearance (5)
23. Attach by stitches (3)
24. Edge of a garment (3)
27. Producing master patterns from design sketches (13)
28. Pouch (6)
30. Mend (6)
32. Removing pieces of the garment from the roll of cloth (7)
33. Portion (5)
36. Check for correct size and shape (3)
37. Iron (5)
39. Initial design (6)
40. Curved clothing fasteners (5)
41. Textile fabric (8)
42. Arrange according to type (4)
43. Class (5)
44. Stacking parts of garments according to style, size and colour (8)

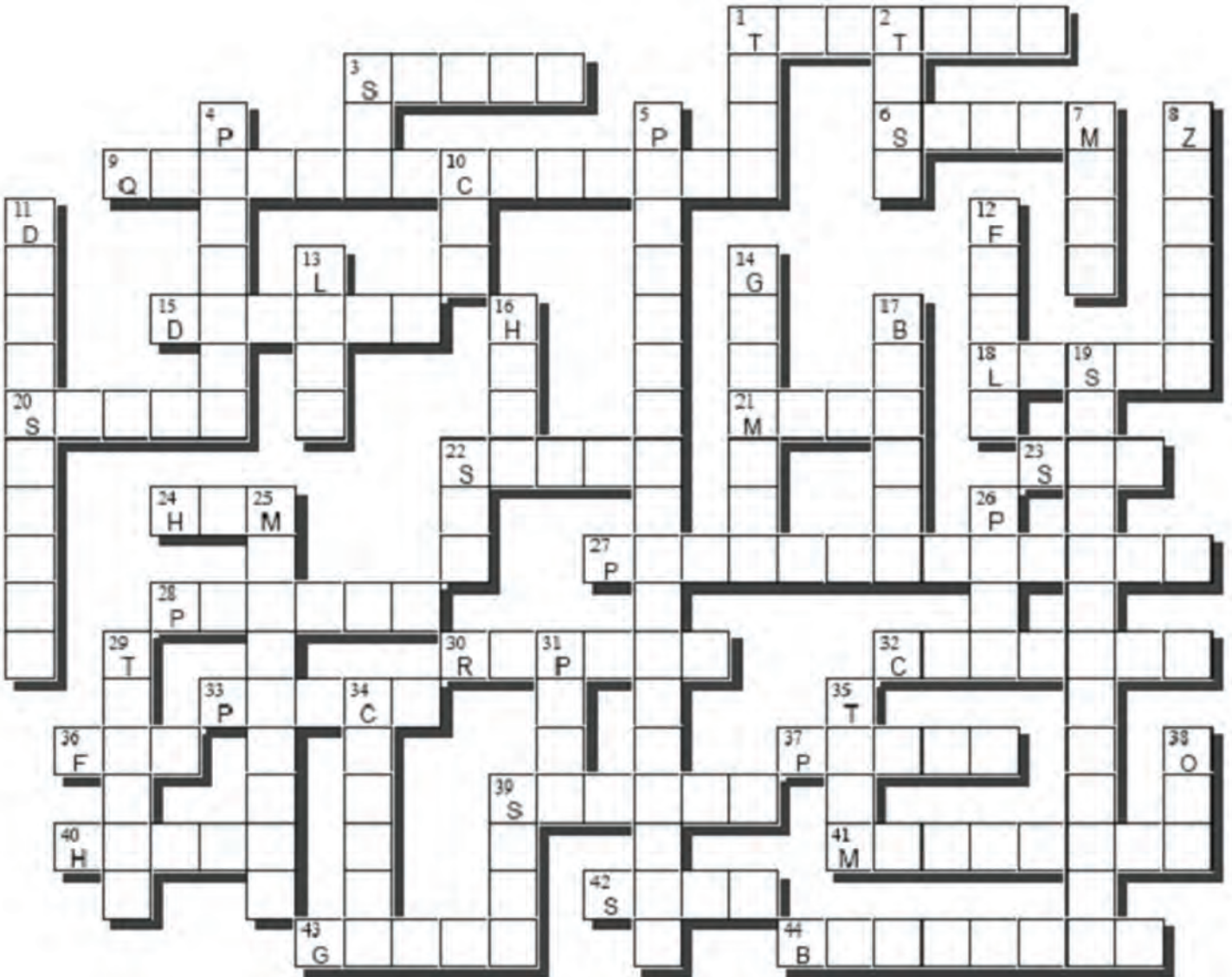
Down Clues

1. Instrument (4)
2. Examine (4)
3. Group (3)
4. Template (7)
5. Check work for faults (18)
7. Create (4)
8. Slide fastener (6)
10. Computer Aided Design (3)
11. Person who makes customised garments (10)
12. Flaw (5)
13. Attach inside covering to garment (4)
14. Article of clothing (7)
16. Warmth (4)
17. Round clothing fastener (6)
19. Detailed description of how a garment is to be made (13)
22. Cutting tool (3)
25. Person who operates a machine (9)
26. Portion of a whole (4)
29. Person who makes suits (6)
31. Cut with zig-zag shears (4)
34. Hue (6)
35. Hem garment and attach buttons, elastic, hooks and eyelets (4)
38. Lubricate (3)
39. One of a series of graduated measurements (4)



CLOTHING PRODUCTION

Activity 4.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Clothing Production Worker career page to find the answers for many of the clues.



CLOTHING PRODUCTION

Activity 4.2 Crossword with Hints

CLUES:

Across Clues

1. Cloth (7)
3. Piece of paper (5)
6. Water vapour (5)
9. Check final garments against specification sheets (14)
15. Plan (6)
18. Intense light beam (5)
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41. Textile fabric (8)
42. Arrange according to type (4)
43. Class (5)
44. Stacking parts of garments according to style, size and colour (8)

Down Clues

1. Instrument (4)
2. Examine (4)
3. Group (3)
4. Template (7)
5. Check work for faults (18)
7. Create (4)
8. Slide fastener (6)
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34. Hue (6)
35. Hem garment and attach buttons, elastic, hooks and eyelets (4)
38. Lubricate (3)
39. One of a series of graduated measurements (4)



CLOTHING PRODUCTION

Activity 4.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

M	S	I	Z	E	Z	H	D	R	E	S	S	M	A	K	E	R	Q	V	S	T	Y	L	E	A
A	Z	Z	A	H	S	F	W	L	C	Y	U	U	M	A	C	H	I	N	I	S	T	T	B	M
T	A	Q	A	T	O	O	L	O	L	G	S	O	G	W	L	S	S	C	S	B	R	U	E	I
E	Y	B	C	P	R	H	L	U	B	X	X	O	S	I	B	L	A	E	J	A	N	I	Y	M
R	H	A	P	I	U	O	X	C	K	R	L	M	R	W	K	X	R	Z	P	D	H	X	A	K
I	D	O	N	C	U	N	T	G	Y	X	A	I	Y	T	Z	P	O	I	L	M	K	X	D	Q
A	A	T	O	R	A	S	L	S	A	W	S	R	U	V	S	X	Y	I	N	P	I	N	K	U
L	G	X	T	K	P	L	U	T	J	D	E	T	Z	K	W	G	N	C	X	J	O	X	B	A
G	V	R	T	G	S	H	A	A	E	W	R	T	R	S	N	G	T	K	M	Z	M	U	Y	L
U	E	E	U	O	O	H	F	Y	K	X	I	G	Q	I	H	S	C	R	H	N	Y	T	P	I
T	N	P	B	K	T	T	E	J	A	F	P	P	K	B	E	E	A	I	E	O	T	E	O	T
C	I	P	V	N	N	E	W	M	M	J	A	A	N	T	M	E	E	T	A	I	N	E	C	Y
U	L	I	G	G	N	T	C	A	E	T	M	M	L	I	E	A	P	N	T	T	E	H	K	C
D	P	Z	N	I	U	E	J	D	T	N	E	D	Y	X	X	D	E	W	X	A	M	S	E	O
O	G	B	H	S	T	M	A	E	R	L	C	U	T	T	I	N	G	T	R	N	R	X	T	N
R	Z	S	C	E	U	R	R	E	I	J	T	A	I	L	O	R	I	Y	S	I	A	F	A	T
P	H	C	T	D	G	N	T	T	D	N	P	C	H	V	S	W	T	E	E	M	G	A	S	R
H	Q	K	E	C	G	T	X	U	C	E	P	I	E	C	E	E	R	E	P	A	I	R	P	O
S	E	W	K	S	A	E	Z	B	W	K	E	H	U	B	S	A	T	S	G	X	V	R	C	L
V	H	C	S	P	T	F	W	S	F	X	E	N	P	Z	U	G	T	K	E	E	S	O	X	Z

WORDLIST

- | | | | |
|---------------|-----------|----------------|-------------|
| BUNDLING | BUTTON | CAD | COLOUR |
| CUTTING | DESIGN | DRESSMAKER | EXAMINATION |
| FAULT | FIT | GARMENT | GRADE |
| HEAT | HEM | HOOKS | LASER |
| LINE | MACHINIST | MAKE | MATERIAL |
| MEET | OIL | PART | PATTERN |
| PATTERNMAKING | PIECE | PINK | POCKET |
| PRESS | PRODUCT | QUALITYCONTROL | REPAIR |
| SAW | SET | SEW | SHEEN |
| SHEET | SIZE | SKETCH | SORT |
| STEAM | STYLE | TAILOR | TEST |
| TEXTILE | TOOL | TRIM | ZIPPER |



COOKING METHODS

Activity 5.1 Mix-and-Match

There are a number of different ways to cook meat. Some of them are listed below. Select a cooking method from the column on the left, match it to a description and write the name of the method in the correct box in the right hand column.

COOKING METHOD	DESCRIPTION	CORRECT METHOD
Bake	Immerse meat in boiling liquid then remove very quickly	
Blanch	Cook with short wave radiation	
Boil	Cook meat quickly with diced vegetables in a small amount of oil in a pan or wok	
Braise	Cook with dry heat in an oven, usually with added fat or oil	
Casserole	Cook with dry heat in an oven	
Deep fry	Cook quickly with radiant heat	
Fry	Cook in very hot liquid	
Grill	Cook in steam from boiling liquid	
Microwave	Cook in small amount of fat or oil in a pan	
Poach	Cook in an enclosed container in an oven with liquid that will be dished up with the meat	
Pressure Cook	Cook in a pan with liquid that will be dished up with the meat	
Roast	Cook gently in a liquid made from milk, water or stock	
Simmer	Cook by immersion in hot fat or oil	
Steam	Cook at high temperatures under pressure in a sealed pot	
Stew	Boil gently	
Stir-fry	Cook with meat half covered with liquid	

Find some recipes for cooking lamb. Which method of cooking does each use?

Try your hand at cooking. Choose one of the recipes and cook up a meal for your friends and family.



COOKING METHODS

Activity 5.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

H	C	G	J	E	W	Q	I	D	Q	Q	H	C	O	L	A	N	D	E	R	O	T	E	N	I
O	V	H	L	H	T	A	Z	T	P	Z	R	E	K	O	O	C	E	R	U	S	S	E	R	P
X	V	D	I	P	G	K	O	J	L	E	S	R	K	S	R	O	S	S	I	C	S	Z	J	L
S	A	S	U	N	X	S	M	C	A	F	A	R	E	C	I	L	S	E	S	E	E	H	C	R
L	K	C	G	R	O	W	P	H	L	R	F	R	Y	I	N	G	P	A	N	U	G	Y	D	E
I	O	R	H	C	E	I	N	R	E	V	R	A	C	T	O	J	S	X	U	O	N	S	Y	T
N	F	C	V	L	J	I	S	A	U	C	E	R	L	E	P	C	A	R	D	C	F	T	X	F
C	H	S	I	D	C	B	R	J	J	C	H	A	Y	L	N	R	U	U	P	O	M	E	P	I
G	R	A	T	E	R	X	R	F	T	Z	Q	J	G	L	O	U	C	T	L	R	H	A	J	L
G	T	E	A	P	O	T	H	E	P	O	G	G	D	A	Y	E	E	L	R	E	R	M	J	G
I	N	S	L	C	H	Q	H	E	N	E	N	V	H	M	S	T	P	C	G	R	T	E	B	G
S	F	O	T	I	K	A	E	N	N	E	E	G	M	T	Z	V	A	L	J	E	O	R	O	E
E	O	I	O	E	O	L	W	L	A	U	P	D	S	A	G	T	N	E	U	N	P	K	T	G
L	R	Q	H	P	E	B	V	K	M	B	Q	O	E	E	G	O	E	A	G	I	K	X	T	C
T	K	N	A	R	S	L	J	J	P	H	V	L	N	M	G	A	G	V	P	A	C	T	L	Z
T	C	W	W	W	V	F	O	Z	C	R	Q	M	P	A	R	S	G	E	B	R	O	P	E	T
E	S	K	I	M	M	E	R	P	E	F	I	N	K	B	C	T	C	R	E	T	T	H	H	J
K	D	B	X	J	L	W	O	B	P	U	J	F	C	S	P	E	U	N	L	S	S	V	J	K
F	O	I	U	F	I	K	F	H	F	G	S	P	I	D	E	R	P	P	L	A	T	E	L	Y
K	Q	G	L	E	W	V	F	Z	X	J	T	X	Y	V	C	Z	G	O	T	O	P	F	I	V

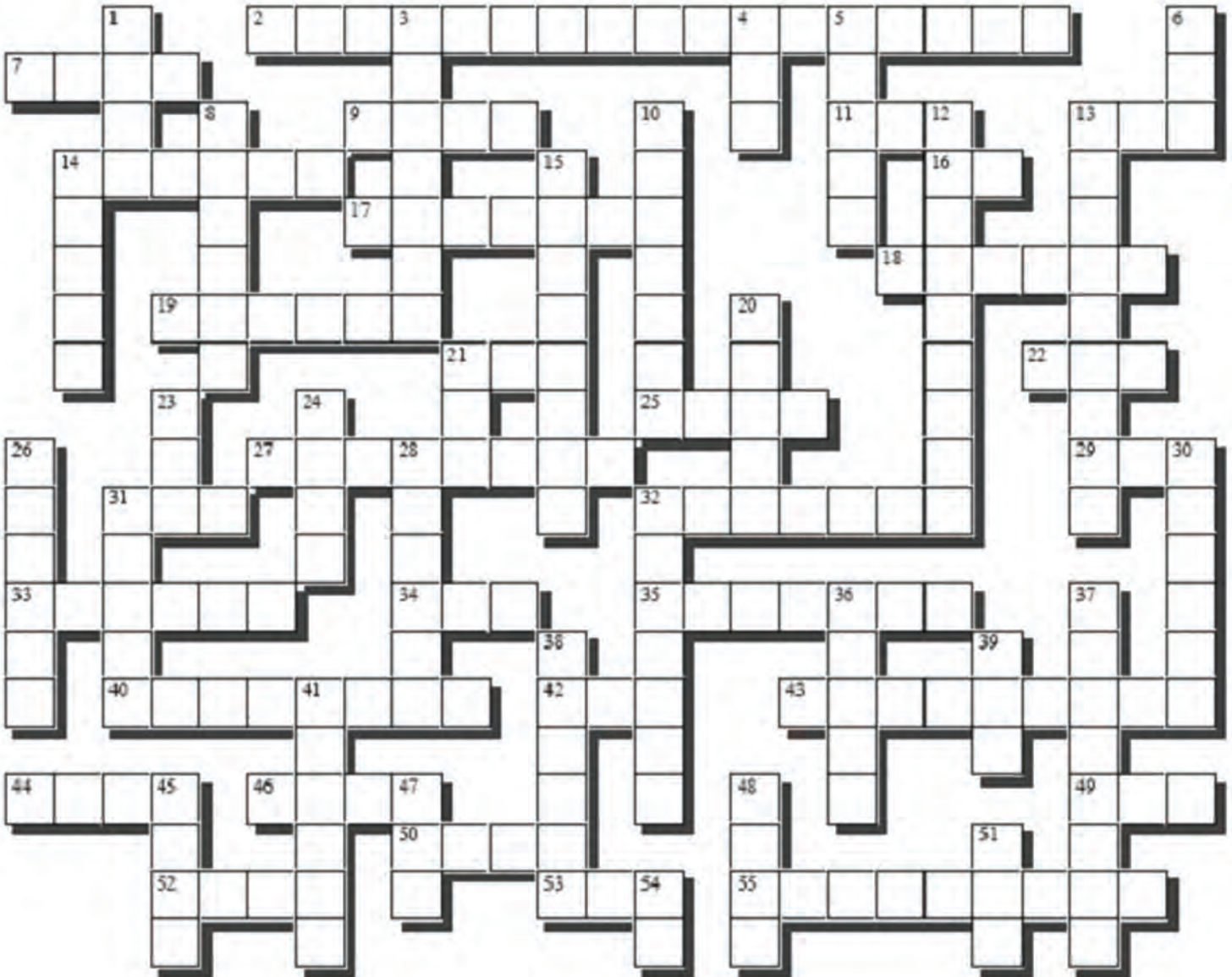
WORDLIST

- | | | | |
|-----------|----------------|----------|-----------|
| BOILER | BOTTLE | BOWL | CANOPENER |
| CARVER | CHEESESLICER | CHINOIS | CLEAVER |
| COLANDER | CORER | CRUET | CUP |
| DEEPFRIER | DISH | EGGCUP | EGGLIFTER |
| FORK | FRYINGPAN | GRATER | JAR |
| JUG | KETTLE | KNIFE | LADLE |
| LID | MEATMALLET | PEELER | PLATE |
| POT | PRESSURECOOKER | SAUCEPAN | SAUCER |
| SCISSORS | SKIMMER | SPIDER | SPOON |
| STEAMER | STEEL | STOCKPOT | STRAINER |
| TEAPOT | TOASTER | TONGS | WHISK |



FARM HAND

Activity 6.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Farm Hand career page to find the some of the answers to the clues.



FARM HAND

Activity 6.1 Crossword

CLUES:

Across Clues

2. ATV (17)
7. Farm building (4)
9. Baby sheep (4)
11. Male sheep (3)
13. Trunk or limb of a felled tree (3)
14. Till soil (6)
16. Bullock (2)
17. Large farm (7)
18. Livestock food (6)
19. Castrated male sheep (6)
21. Bleat of a sheep (3)
22. Preferred vehicle of farm hands (3)
25. Increase in size (4)
27. Male farm hand (8)
29. Gear tooth (3)
31. Opposite of no (3)
32. Grass and herbage grazed by livestock (7)
33. Most common breed of sheep in Australia (6)
34. Power take off (3)
35. Long period with little or no rain (7)
40. Old name for a sheep farmer (8)
42. Australian Taxation Office (3)
43. Mechanically operated equipment (9)
44. Moving inside (4)
46. Shaft dug in ground to bring water to the surface (4)
49. Metal used to reinforce concrete (3)
50. Fleece (4)
52. Farm hands often work _____ hours (4)
53. Large flightless bird (3)
55. Equipment attached to tractor (9)

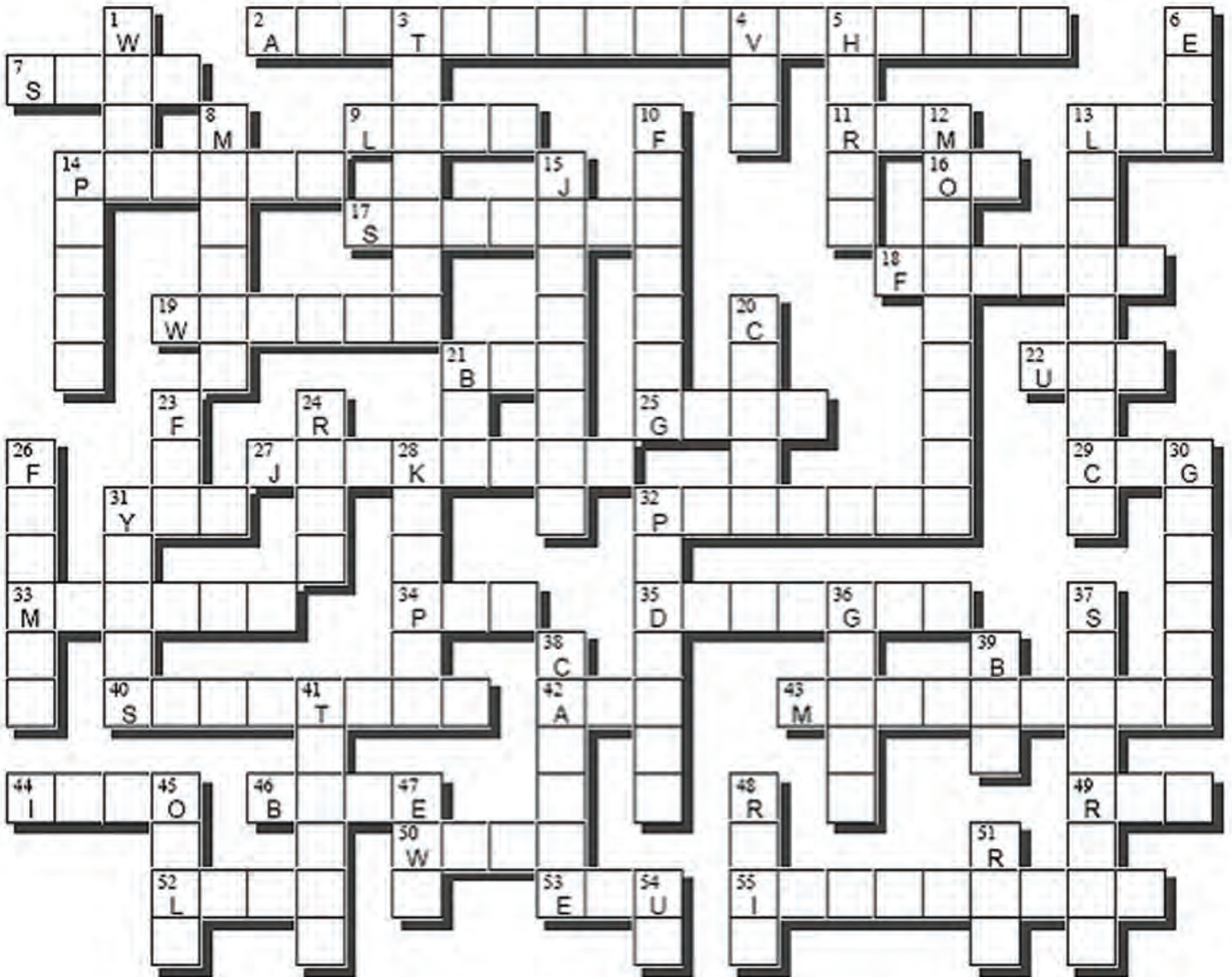
Down Clues

1. Deep hole in the ground used to supply water (4)
3. Farm vehicle (7)
4. Animal doctor (3)
5. Animal that can be ridden (5)
6. Laid by a hen (3)
8. Gather livestock and move in a group (6)
10. Constructing boundaries around paddocks (7)
12. Two-wheeled vehicle (9)
13. Farm animals (9)
14. Upright supports for a fence (5)
15. Female farm hand (8)
20. Plants grown for food or fibre (5)
21. Bleat of a sheep (3)
23. Amount charged (3)
24. Narrow passage in yards through which stock move one at a time (4)
26. Person who owns and operates a farm (6)
28. Australian sheep dog (6)
30. Oily (6)
31. Livestock enclosures (5)
32. Field (7)
36. Most common plant in pasture (5)
37. Removing wool from sheep (8)
38. Bovine animals (6)
39. Storage container (3)
41. Long container from which livestock eat or drink (6)
45. Different grades are used to lubricate machinery (4)
47. Female sheep (3)
48. Precipitation (4)
51. Road-side mail box (3)
54. Opposite of down (2)



FARM HAND

Activity 6.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Farm Hand career page to find the some of the answers to the clues.



FARM HAND

Activity 6.2 Crossword with Hints

CLUES:

Across Clues

2. ATV (17)
7. Farm building (4)
9. Baby sheep (4)
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3. Farm vehicle (7)
4. Animal doctor (3)
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51. Road-side mail box (3)
54. Opposite of down (2)



FARM HAND

Activity 6.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

P	C	C	D	V	Y	K	U	S	P	P	Y	E	M	A	C	H	I	N	E	R	Y	I	C	B
T	B	E	L	R	E	J	R	C	P	F	B	J	E	O	T	N	I	T	L	W	Q	C	S	C
O	H	I	N	L	A	C	D	I	B	O	R	A	J	F	H	U	F	H	C	A	O	L	T	R
S	G	Q	P	C	R	I	H	M	G	B	R	E	E	S	R	O	H	V	I	S	B	R	M	I
A	L	I	Y	E	Q	U	N	Z	Z	D	M	C	T	N	I	B	C	Y	H	E	M	B	G	I
A	E	I	D	H	E	L	T	T	A	C	K	A	C	T	N	M	O	F	E	Y	A	Y	K	M
B	B	D	O	G	V	X	S	T	A	T	I	O	N	I	A	W	G	Z	V	G	L	A	M	W
F	O	F	E	U	J	A	C	K	A	R	O	O	F	W	G	U	T	K	N	I	I	R	A	O
F	R	S	M	O	X	C	K	H	E	K	Y	S	A	E	R	G	Q	W	I	M	F	D	R	O
M	G	F	U	R	L	O	G	U	O	M	C	M	U	T	E	E	G	S	A	P	P	S	O	L
K	Z	Q	U	T	D	R	V	D	G	E	G	O	C	U	T	N	N	F	R	L	O	X	C	J
H	G	U	O	L	P	N	Y	U	Q	R	K	R	D	P	B	P	I	E	R	E	S	C	Q	A
O	G	T	R	O	T	C	A	R	T	I	T	I	T	D	O	U	C	Y	E	M	T	A	M	Q
P	J	E	G	G	U	E	G	E	V	N	E	P	B	E	A	Y	N	G	T	E	S	T	G	T
U	S	W	N	Q	R	H	O	C	G	O	V	N	U	R	K	P	E	E	L	N	J	O	R	H
V	B	O	H	U	C	H	E	O	F	D	Y	E	Z	O	O	M	F	W	L	T	D	R	A	G
R	L	K	T	P	F	A	R	M	E	R	L	K	I	B	S	T	E	E	A	I	V	A	S	U
E	N	S	O	O	R	A	L	L	I	J	V	M	Q	K	C	L	O	Z	I	H	E	C	S	O
B	A	A	V	I	P	K	C	O	T	S	E	V	I	L	L	G	D	M	U	S	T	E	R	R
P	S	D	Q	S	V	E	G	N	I	R	A	E	H	S	B	R	P	R	E	H	T	E	W	D

WORDLIST

ALLTERRAINVEHICLETRACTOR	JACKAROO	STATION	JILLAROO
FENCING	BORE	KELPIE	SQUATTER
TROUGH	FARMER	YARDS	MERINO
RACE	HORSE	LAMB	EWE
WOOL	CROPS	RAM	MOTORBIKE
PASTURE	PADDOCK	CATTLE	WETHER
MUSTER	DROUGHT	FODDER	LIVESTOCK
UTE	MACHINERY	PLOUGH	LONG
GRASS	WELL	SHEARING	IMPLEMENT
RAIN	FEE	SHED	POSTS
YES	EGG	VET	OX
LOG	PTO	GROW	COG
GREASY	INTO	REO	RMB
OILS	UP	ATO	EMU
BIN		BAA	BAA



FENCING

Activity 7.1 Maths Activity - A Fencing Job

CAREER: Rural Contractor – Fencing

A fencing contractor has been hired to fence a new small home paddock on a farm. The paddock is one hectare in area, square in shape and on flat ground. The fence will have 5 high tensile barbed wires.

1. Draw the paddock to scale. Use the scale 1 cm = 10 m.

2. Calculate the length of the fence.

.....
.....

3. The paddock will have one 3.6m (12 foot) gate. The gateway will be just under 4 metres wide.

a. Mark the position of the gate on your diagram

b. Why did you put the gate in that position?

.....
.....

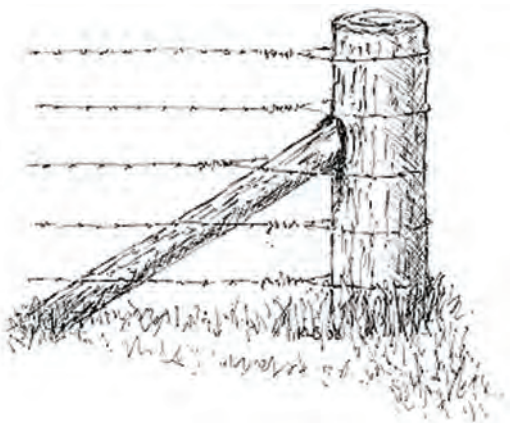


FENCING

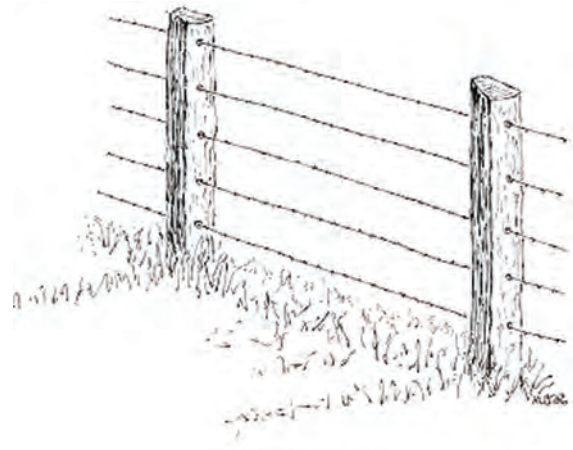
Activity 7.1 Maths Activity - A Fencing Job

4. The fence will be constructed with hardwood posts. There are two type of posts:

Strainer posts are large posts that take the pressure of the wire when it is strained. On flat ground a strainer post is placed at each corner of a paddock and on either side of the gate. Strainer posts are supported by stays to stop them being pulled over when tension is put on the wires.



Fence posts are smaller than strainers. For this fence they will be placed at 4 metre intervals. Five holes will be drilled through each post and each of the five wires pulled through the posts, strained tight and wrapped around and secured on the strainer posts at each end.



a. How many strainer posts are need?

.....
.....

b. How many fence posts are needed?

.....
.....



FENCING

Activity 7.1 Maths Activity - A Fencing Job

- c. How many metres of wire are needed? Add an extra metre of wire each time you get to a strainer post to allow the wire to be wrapped around the post, strained and tied off. Don't forget to allow for the gateway.

.....

.....

- d. Barbed wire comes in 500 metre rolls. How many rolls of wire will the contractor need to complete the fence?

.....

.....

- 5. The contractor has quoted \$10 per metre to supply the materials and erect the fence.

- a. How much will the fence cost?

.....

.....

- b. The contractor must add 10 percent GST to his quote. Calculate the GST.

.....

.....

- c. What is the total cost of the fence?

.....

.....

- b. Complete the attached Find-a-Word about Fencing Tools and Materials.

- 7. Did you know that Australia has the longest fence in the world? Find out where it is, how long it is and when and why it was built.



FENCING

Activity 7.1 Maths Activity - A Fencing Job

Extension problems for keen fencers and mathematicians

1. Calculate the cost of materials for the fencing contractor. Use the prices given below.
Note – For this paddock each strainer post in a corner will have 2 diagonal stays and one stay at a gateway.

MATERIAL	COST PER UNIT	NO. OF UNITS	TOTAL COST
Strainer Post	\$20.00		
Stay	\$12.00		
Fence Post	\$8.00		
Roll of high tensile barbwire	\$70.00		
Gate (3.6m) and fittings	\$120.00		
TOTAL COST			

2. The cost of materials included GST. Divide the total cost by 11 to calculate the GST. What is the cost of materials without GST?
3. How much did the fencing contractor earn on this job? Of course there are other costs, called overheads, that the contractor must allow for such as vehicles, machinery and tools, fuel, insurance and possibly the wage of another worker.



FENCING

Activity 7.2 Find-a-Word - Fencing Tools + Materials

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

S	R	E	N	I	A	R	T	S	G	N	I	C	N	E	F	E	K	X	R	V	O	M	C	I
P	R	Z	E	T	X	J	W	X	S	D	Z	J	S	E	R	I	W	N	I	A	L	P	N	M
S	S	Y	A	T	S	T	R	U	N	J	W	Y	Z	W	O	N	O	A	L	T	J	Y	C	R
R	A	Z	W	N	B	E	W	I	R	E	V	I	C	E	A	V	P	V	H	Q	Y	C	Z	E
E	I	C	I	K	P	E	R	I	R	E	M	M	A	R	M	S	X	C	E	Q	L	E	F	R
T	S	F	O	P	D	C	R	P	L	L	I	R	D	K	A	H	N	W	O	A	Q	R	R	O
T	K	R	O	C	I	U	L	I	N	E	T	T	I	N	G	W	N	I	W	H	H	I	S	B
U	Y	R	E	F	T	E	M	D	W	X	T	I	E	W	I	R	E	H	A	S	E	W	P	E
C	D	P	S	I	A	U	G	E	R	E	K	C	U	R	T	D	A	C	E	H	B	D	I	L
E	T	R	T	H	L	Y	L	G	L	I	L	M	S	G	V	M	I	L	U	P	C	E	R	O
D	N	E	E	U	S	P	S	E	E	B	V	I	H	F	M	S	P	O	F	H	K	B	I	H
I	I	N	K	F	N	S	R	E	V	R	N	E	S	E	I	A	Z	C	K	U	J	R	T	T
S	O	N	C	F	D	M	E	C	L	O	I	B	R	N	T	Z	H	Y	C	S	A	A	L	S
I	J	I	I	P	I	M	R	R	T	P	H	W	M	S	E	B	Z	B	O	T	Y	B	E	O
F	E	P	P	M	N	Y	O	O	N	U	P	S	D	A	N	T	H	P	L	S	X	A	V	P
Y	G	S	R	T	U	P	B	W	Z	V	H	I	B	E	W	U	H	G	G	O	M	W	E	C
G	N	E	A	Y	T	G	M	B	R	M	U	T	R	I	B	H	R	G	N	P	H	O	L	L
U	I	R	T	L	F	K	O	A	T	U	X	R	K	G	O	R	Q	C	I	N	O	I	F	R
R	H	I	S	X	L	H	T	R	N	Y	Y	E	K	H	B	W	A	K	R	H	Z	A	N	J
Q	T	W	C	S	T	R	A	I	N	E	R	P	O	S	T	N	V	B	X	B	N	A	M	I

WORDLIST

- | | | | |
|------------|------------------|-------------|-----------------|
| ATOMBORER | AUGER | BARBEDWIRE | CHAINSAW |
| CLAWHAMMER | CROWBAR | DRILL | DRIVER |
| DROPPER | FENCINGSTRAINERS | GRIPPLES | HIGHTENSILEWIRE |
| HINGEJOINT | IOWABARBEDWIRE | NETTING | PLAINWIRE |
| PLIERS | POSTHOLEBORER | POSTS | RAMMER |
| RINGLOCK | SHOVEL | SIDECUTTERS | SPIRITLEVEL |
| STAPLES | STARPICKETS | STAYS | STRAINERPOST |
| TIEWIRE | TRUCK | WIRESPINNER | WIREVICE |



INVESTMENT

Activity 8.1 Maths Activity - Investment Choices

A certain sheep farm has been well managed and has had a good season. The income received from wool and meat sales for the year was above the budgeted forecast. The family also received an inheritance from the estate of an elderly relative who recently passed away.

The family now has \$200,000 to invest. They have discussed the possible options with a Financial Dealer and Broker and decided to invest the money off-farm. They will spread the risk by dividing the money evenly between two types of investments:

1. \$100,000 will be invested as a Term Deposit at their local bank for one year at a fixed interest rate of six percent.
2. \$100,000 will be invested in shares on the Australian Stock Market. A portfolio of five blue chip companies will be chosen and the money spread between the stocks as shown in the following table.

COMPANY	NO. OF SHARES	PRICE/SHARE AT PURCHASE	DIVIDEND (C/SHARE)
BHP Billiton	700	\$28.80	23.7
Commonwealth Bank	500	\$45.35	31
Telstra Corporation	5000	\$3.75	20
Woodside Petroleum	500	\$45.59	58
Woolworths	1000	\$20.10	28

Calculate the return on the two investment strategies.

1.
 - a. How much interest was earned on the Term Deposit in one year?
 - b. Has there been a change in the value of the principal (original sum) invested?
2. Draw up a table or use a spreadsheet to calculate:
 - a. The value of shares purchased
 - b. The return on the shares as dividends in one year. Assume the dividends are paid twice during the year at the dividend price shown.



INVESTMENT

Activity 8.1 Maths Activity - Investment Choices

- c. Determine the total value of the shares at the end of one year. To do this, assume that the share prices in the table above were the prices on the Australian Stock Exchange (ASX) exactly one year ago. Follow the Web Quest on the next page to access the ASX website to find today's share price for each company. Alternatively, look up the share prices in a major newspaper.
 - d. Compare the value of the shares in the portfolio today with their purchase value. Has there been a change in the value of the principal (original sum) invested? Which company has done the best?
3. Compare the two investment strategies in terms of:
 - a. Value of principal invested at one year.
 - b. Money (interest or dividends) earned.
 4. If you had \$200,000 to invest what would you do with it?

WEB QUEST - AUSTRALIAN STOCK EXCHANGE

Current Share Prices

1. Connect to the Internet.
2. Type in the web address for the Australian Stock Exchange (ASX).
www.asx.com.au
3. Click on SHARES (Investor Centre – Left hand column).
4. Click on PRICES, RESEARCH AND ANNOUNCEMENTS.
5. Click on PRICES.
6. Type in the first company name in the middle box. Click GO.
7. Click on the company name and ALL SECURITIES FOR SELECTED COMPANY.
8. The figure in the second column titled 'LAST' should be used as your latest share price.
9. Click BACK twice and repeat the search until you have the current share price for each company.



INVESTMENT

Activity 8.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

N	I	F	D	Y	T	B	D	C	A	S	H	M	A	N	A	G	E	M	E	N	T	G	V	I
W	T	H	N	O	I	T	C	U	D	E	D	K	B	B	E	R	U	T	N	E	B	E	D	G
D	E	P	R	E	C	I	A	T	I	O	N	A	P	R	I	N	C	I	P	A	L	K	G	A
N	R	S	D	E	P	O	S	I	T	N	L	S	E	R	U	T	U	F	O	E	G	D	D	L
O	M	S	E	R	A	H	S	F	B	A	J	D	E	L	I	W	S	V	O	M	L	V	R	X
I	D	Y	F	E	C	A	H	A	N	P	N	H	N	O	I	T	A	L	F	N	I	V	J	X
T	E	R	Q	V	E	H	N	C	C	O	M	P	O	U	N	D	W	O	H	X	A	B	T	A
A	P	Z	S	W	T	K	E	J	B	J	O	T	S	E	P	I	H	C	E	U	L	B	Q	T
X	O	F	Y	S	R	D	S	Q	N	H	N	Q	M	W	P	D	H	Y	Q	V	L	U	C	E
A	S	G	U	U	F	T	A	X	U	Q	K	L	B	D	L	L	I	F	M	U	O	D	P	M
T	I	R	P	U	N	R	U	D	X	E	A	U	N	E	L	T	Z	I	G	R	R	E	G	O
K	T	T	N	E	U	E	U	Z	B	T	L	E	I	I	I	B	F	B	E	M	D	T	O	C
S	C	D	M	R	H	K	Y	H	S	L	D	Y	W	D	E	M	O	C	N	I	I	A	E	N
Y	Z	Y	H	H	O	O	G	N	M	I	I	P	E	E	G	K	Z	F	Z	V	N	D	S	I
R	A	H	S	O	T	R	I	A	V	N	T	R	I	E	T	F	Y	Y	D	S	A	I	T	N
P	L	K	T	D	I	B	R	I	N	X	C	S	T	A	M	P	D	U	T	Y	R	U	A	Z
L	J	D	A	D	N	K	D	X	I	K	B	A	W	A	S	S	E	T	S	S	I	Q	T	B
G	G	R	O	D	E	U	Q	T	M	V	R	O	T	A	L	U	C	E	P	S	E	I	E	S
D	F	O	L	T	C	B	F	O	V	B	E	A	R	M	A	R	K	E	T	G	S	L	I	N
W	Y	Y	F	N	I	A	G	L	A	T	I	P	A	C	Y	T	I	L	I	B	A	I	L	F

WORDLIST

- | | | | |
|---------------|--------------|----------------|-------------|
| ALLORDINARIES | ASSETS | BALANCEDFUND | BANKRUPTCY |
| BEARMARKET | BLUECHIP | BOND | BROKER |
| BULLMARKET | CAPITALGAIN | CASHMANAGEMENT | CHEQUE |
| COMPOUND | CREDIT | DEBENTURE | DEDUCTION |
| DEPOSIT | DEPRECIATION | DIVIDEND | ESTATE |
| FLOAT | FUNDS | FUTURES | INCOME |
| INCOMETAX | INFLATION | INSTALMENTS | LIABILITY |
| LIQUIDATE | PAYMENTS | PRINCIPAL | SHARES |
| SPECULATOR | STAMPDUTY | TAXATION | TERMDEPOSIT |
| TRUST | WILL | YIELD | |



JOBS IN THE SHEARING SHED

Activity 9.1 Mix-and-Match

A shearing shed is a busy place during shearing. A team of highly skilled people works together to harvest the wool as quickly, efficiently and carefully as possible. Thousands of sheep can be shorn and the fleece prepared and pressed in the matter of a few days.

The main jobs in the shed listed below have become mixed up. Select a job from the column on the left, match it to a description and write the name of the job in the correct box in the right hand column.

JOB LIST	DESCRIPTION	CORRECT JOB
Shed preparation	Writing details about the wool bales in the wool book	
Penning up	Spreading the fleece on the wool table	
Shearing	Removing wool from the breech area of the sheep and around the eyes	
Crutching	Removing the fleece from each sheep	
Picking up	Removing inferior wool from the fleece	
Throwing	Placing a special label on each wool bale	
Skirting	Cleaning the shed and storing equipment	
Rolling	Measuring the weight of each bale	
Classing	Lining up the wool bales at the end of the shed	
Pressing	Inspecting each fleece to determine its type	
Weighing	Forcing wool into a bale	
Branding	Collecting the shorn fleece from the board	
Storing	Cleaning the shed, minor repairs and watering yards	
Cut-out	Moving sheep into catching pens	
Recording	Bundling the fleece in the correct way	



JOBS IN THE SHEARING SHED

Activity 9.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

J	X	O	H	E	B	U	T	N	W	O	D	T	C	D	M	D	S	D	T	H	R	H	G	S
S	Q	F	C	F	T	A	F	N	R	C	U	T	O	U	T	N	Z	Q	L	I	E	G	X	H
P	R	T	T	G	R	A	J	O	X	Y	C	B	Z	P	Z	I	U	B	O	C	T	I	B	E
M	E	W	A	G	E	V	T	I	T	K	V	L	S	T	C	R	G	K	E	D	T	E	R	A
Z	S	O	C	W	B	C	P	N	Z	N	D	S	A	K	N	G	U	I	Y	W	U	W	A	R
T	S	I	H	W	A	P	E	K	V	T	A	V	S	S	L	F	P	L	I	X	C	W	N	I
F	E	D	C	R	T	P	S	M	C	L	P	W	F	N	S	D	X	A	W	Z	N	C	D	N
J	R	Q	T	R	R	T	I	N	C	B	B	J	D	A	N	E	H	C	E	E	R	B	G	G
C	P	N	C	A	O	B	D	B	V	I	I	I	M	A	E	L	R	G	L	W	M	E	J	F
S	O	F	H	R	A	O	E	E	S	H	E	D	H	B	I	N	N	Q	K	C	O	L	F	I
C	D	S	E	I	O	A	F	A	S	T	E	N	S	F	H	S	S	E	R	P	G	R	N	D
A	P	R	S	K	I	R	T	M	Y	M	Q	S	T	G	R	E	R	A	E	H	S	K	S	E
L	B	A	A	V	H	D	E	A	L	N	M	P	T	N	Z	V	P	I	L	C	B	S	L	E
E	E	R	K	Y	Q	X	G	E	L	A	Z	M	U	B	M	O	C	P	A	J	S	H	U	C
S	L	K	O	M	C	C	B	T	O	E	T	U	B	N	K	M	O	Z	B	T	P	E	W	E
S	O	O	A	O	P	B	B	P	R	L	P	A	L	Y	E	V	V	P	A	F	U	A	M	E
W	O	J	B	H	M	E	E	K	A	C	E	G	I	B	S	P	F	N	W	D	K	R	G	L
O	W	G	H	U	T	E	E	P	H	A	R	V	E	S	T	B	D	C	A	V	C	S	L	F
T	H	R	O	W	W	N	H	H	X	C	R	U	T	C	H	I	N	G	D	N	I	O	F	N
L	S	V	U	S	L	V	J	S	S	H	P	B	K	F	O	Y	C	M	S	E	P	V	M	Z

WORDLIST

- | | | | |
|---------|------------|-----------|---------|
| BALE | BIN | BOARD | BRAND |
| BREECH | BROOM | BUTT | CATCH |
| CLASS | CLASSER | CLEAN | CLIP |
| COMB | CONTRACTOR | CRUTCHING | CUTOUT |
| CUTTER | DOWNTUBE | FASTEN | FLEECE |
| FLOCK | GRIND | HANDPIECE | HARVEST |
| INK | PENUP | PICKUP | PRESS |
| PRESSER | ROLL | SCALES | SHARPEN |
| SHEARER | SHEARING | SHEARS | SHED |
| SHEEP | SKIRT | STAND | STORE |
| SWEEP | TEAM | THROW | WAGE |
| WEIGH | WOOL | YARDS | |



LANDCARE

Activity 10.1 Investigating Weeds Activity

CAREER: Landcare Coordinator

A weed is a plant growing in a place where it is not wanted. This may seem to be a simple definition but the problems caused by weeds in Australia are very serious. Weeds now cost Australian farmers more than four billion dollars per year. The cost to our natural environment and native animals and plants has not yet been estimated.

The first Europeans to settle in Australia found the landscape to be harsh and unforgiving and the native plants unsuitable for their needs. The First Fleet carried as part of its cargo a small quantity of vegetable and cereal seeds to establish agricultural crops and make the colony self-supporting.

Since then thousands of plants have been introduced to Australia both for agricultural and garden purposes. Of the 47,000 plant species currently growing in Australia 22,000 have been introduced. A small percentage of agricultural plants have become weeds. However, most of the weeds are garden escapes.

MAKING A WEED COLLECTION

1. Collect at least 10 weeds from around the school, home or farm. Try to get the whole of the plant (stem, leaves, flowers and roots). If you're not sure if the plant is a weed ask before you collect it.
2. Make a simple plant press from two flat boards with layers of newspaper in between. Lay each specimen flat on a sheet of paper and cover it with more sheets. The papers should be changed regularly to stop the plants from going mouldy. Place some heavy books or two or three house bricks on the top board.
3. Find out the common names of the weeds. Ask your teacher, parents or local farmers. See if there are any books on weeds in your library.
4. When the plants are completely dry, carefully mount them on paper with PVA glue or thin strips of masking tape.



LANDCARE

Activity 10.1 Investigating Weeds Activity

5. Label each page with the following details:
 - a. Common name
 - b. Date collected
 - c. Location

6. Use the weeds books to find out more about the weeds you have collected, such as:
 - a. Scientific name
 - b. Country of origin
 - c. How the weed spreads
 - d. The impact of the weed on agriculture and the environment
 - e. How to control the weed

7. Write up the information you have collected and add it to your collection.



LANDCARE

Activity 10.2 Find-a-Word - Native Trees of Australia

Australia is home to approximately 25,000 native plants. In the puzzle below are some of the better known native trees. Use the wordlist to find the trees. (Hint: 8 directions)

M	O	U	N	T	A	I	N	A	S	H	S	U	B	S	A	M	T	S	I	R	H	C	I	
D	D	V	H	A	R	R	A	J	W	G	X	O	B	E	L	B	M	I	B	T	T	X	T	Q
M	E	S	K	U	R	R	A	J	O	N	G	K	C	Y	P	R	E	S	S	P	I	N	E	E
O	U	T	D	Y	M	T	G	R	A	S	S	T	R	E	E	M	I	G	R	C	A	C	V	E
S	R	L	C	O	O	L	I	B	A	H	D	O	O	W	E	S	O	R	A	R	H	M	B	L
P	S	E	G	Q	T	H	C	E	E	B	C	I	T	C	R	A	T	N	A	E	S	P	R	L
X	J	P	V	A	B	U	N	Y	A	P	I	N	E	B	Q	L	D	D	E	M	T	A	U	A
K	R	A	B	N	O	R	I	M	H	E	X	D	L	P	F	R	H	S	M	U	R	J	S	M
X	B	A	B	O	A	B	F	O	L	O	Q	A	M	J	E	U	E	B	G	G	I	D	H	J
S	F	H	V	P	D	Q	O	T	B	O	C	U	C	D	O	T	M	L	N	D	N	O	B	T
I	Y	S	Z	Z	T	P	T	W	V	K	G	I	C	N	R	H	A	A	O	E	G	O	O	T
L	C	U	C	P	P	A	O	D	W	T	Z	E	P	E	M	J	H	C	D	R	Y	W	X	U
K	O	R	S	I	W	L	M	O	S	C	D	I	E	U	B	H	O	K	N	R	B	H	U	B
Y	R	B	N	L	L	T	O	O	Z	A	N	O	G	A	A	C	G	B	A	E	A	C	G	K
O	K	E	S	E	B	D	H	W	R	E	F	W	N	T	K	C	A	E	U	V	R	A	H	C
A	W	L	Y	C	C	G	L	D	L	I	O	K	A	D	M	Y	N	A	Q	I	K	O	S	A
K	O	T	H	A	K	E	A	O	A	N	S	R	E	S	G	P	Y	N	G	R	P	C	Z	L
U	O	T	G	R	C	E	R	O	S	I	A	Q	M	L	A	P	W	O	L	A	G	N	A	B
Q	D	O	B	R	U	G	D	L	A	W	U	N	F	L	O	O	D	E	D	G	U	M	L	T
H	Y	B	K	G	A	D	J	B	E	G	I	F	Y	A	B	N	O	T	E	R	O	M	E	Y

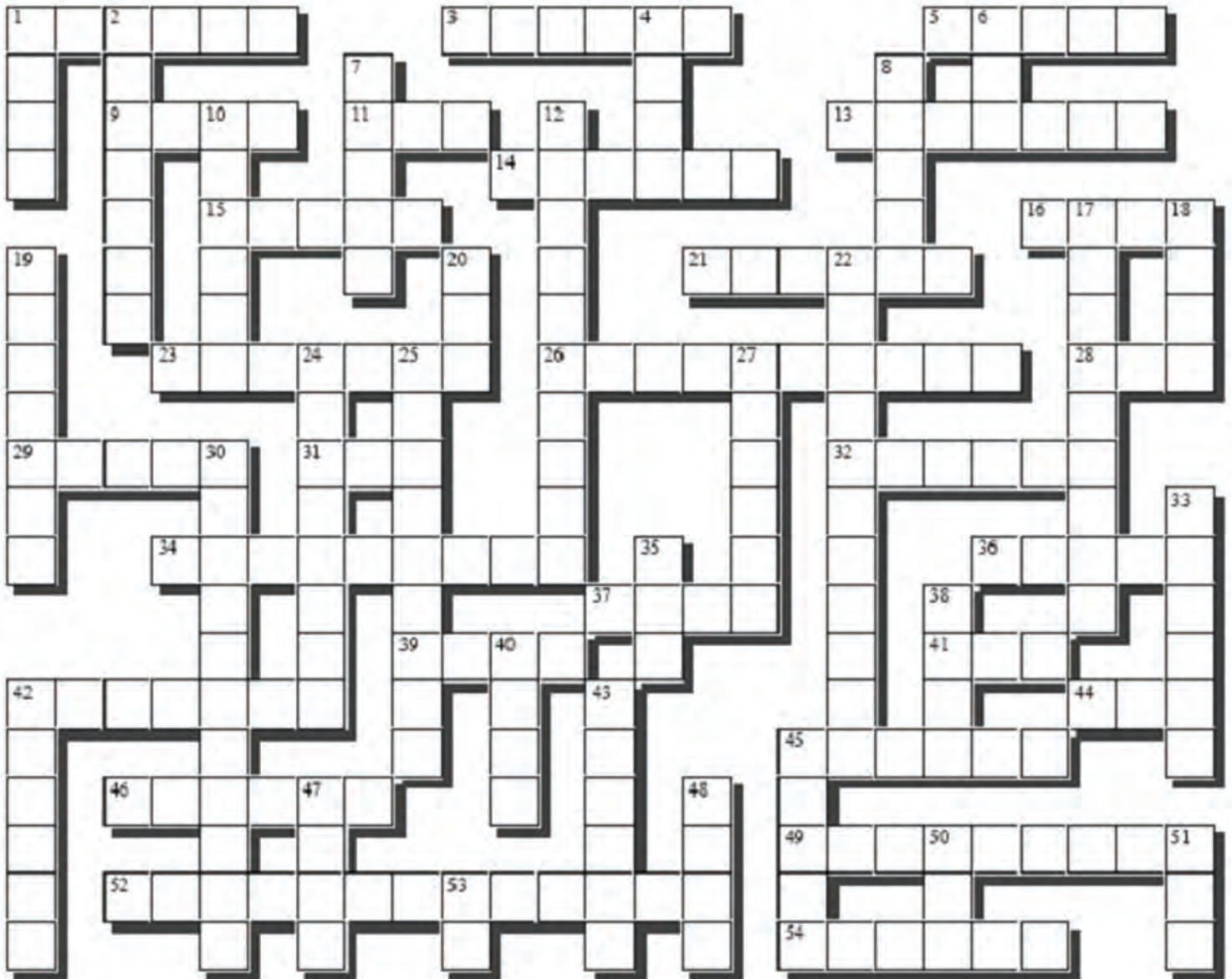
WORDLIST

- | | | | |
|----------------|---------------|-------------|-----------|
| ANTARCTICBEECH | BANGALOWPALM | BANKSIA | BAOBAB |
| BIMBLEBOX | BLACKBEAN | BLACKBUTT | BLACKWOOD |
| BLOODWOOD | BOTTLEBRUSH | BRUSHBOX | BUNYAPINE |
| CHEESETREE | CHRISTMASBUSH | COACHWOOD | COOLIBAH |
| CORKWOOD | CYPRESSPINE | FLOODEDGUM | GHOSTGUM |
| GRASSTREE | HAKEA | HOOPPINE | HUONPINE |
| IRONBARK | JARRAH | KURRAJONG | MAHOGANY |
| MALLEE | MORETONBAYFIG | MOUNTAINASH | MULGA |
| QUANDONG | REDCEDAR | RIVERREDGUM | ROSEWOOD |
| SILKYOAK | SNOWGUM | STRINGYBARK | WARATAH |
| WATTLE | YELLOWBOX | | |



MECHANIC

Activity 11.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Farm Mechanic career page to find some of the answers to the clues.



MECHANIC

Activity 11.1 Crossword

CLUES:

Across Clues

1. Tool with a handle and metal head used for striking objects (6)
3. Hinged hand tool with two arms and gripping jaws (6)
5. Cutting tool (5)
9. Substance burnt to produce heat and power (4)
11. Trench in which mechanics can work (3)
13. Device for storing and generating electricity (7)
14. Type of high compression engine named after its inventor (6)
15. Toothed wheels that engage to transfer motion (5)
16. Move no further (4)
21. Machine used to fuse pieces of metal together (6)
23. Metal casing holding a train of gears (7)
26. Machine used to inflate tyres (10)
28. Thread-cutting tool (3)
29. Inflated rubber rings (5)
31. Tool for cutting external threads (3)
32. Fix something that is damaged or broken (6)
34. Device used to force grease into parts of a machine (9)
36. Rigid bar used to transfer force to a load (5)
37. Metal clamping device usually having a pair of jaws (4)
39. Short for differential (4)
41. Consists mainly of nitrogen and oxygen (3)
42. Device that sharpens tools (7)
44. Fossil fuel (3)
45. Devices for slowing or stopping a vehicle or drive shaft (6)
46. Device for opening or closing an electrical circuit (6)
49. Oily or greasy substance (9)
52. Circular device used to direct the path of a vehicle (13)
54. Soft sediments found in the bottom of tanks, drums and drains (6)

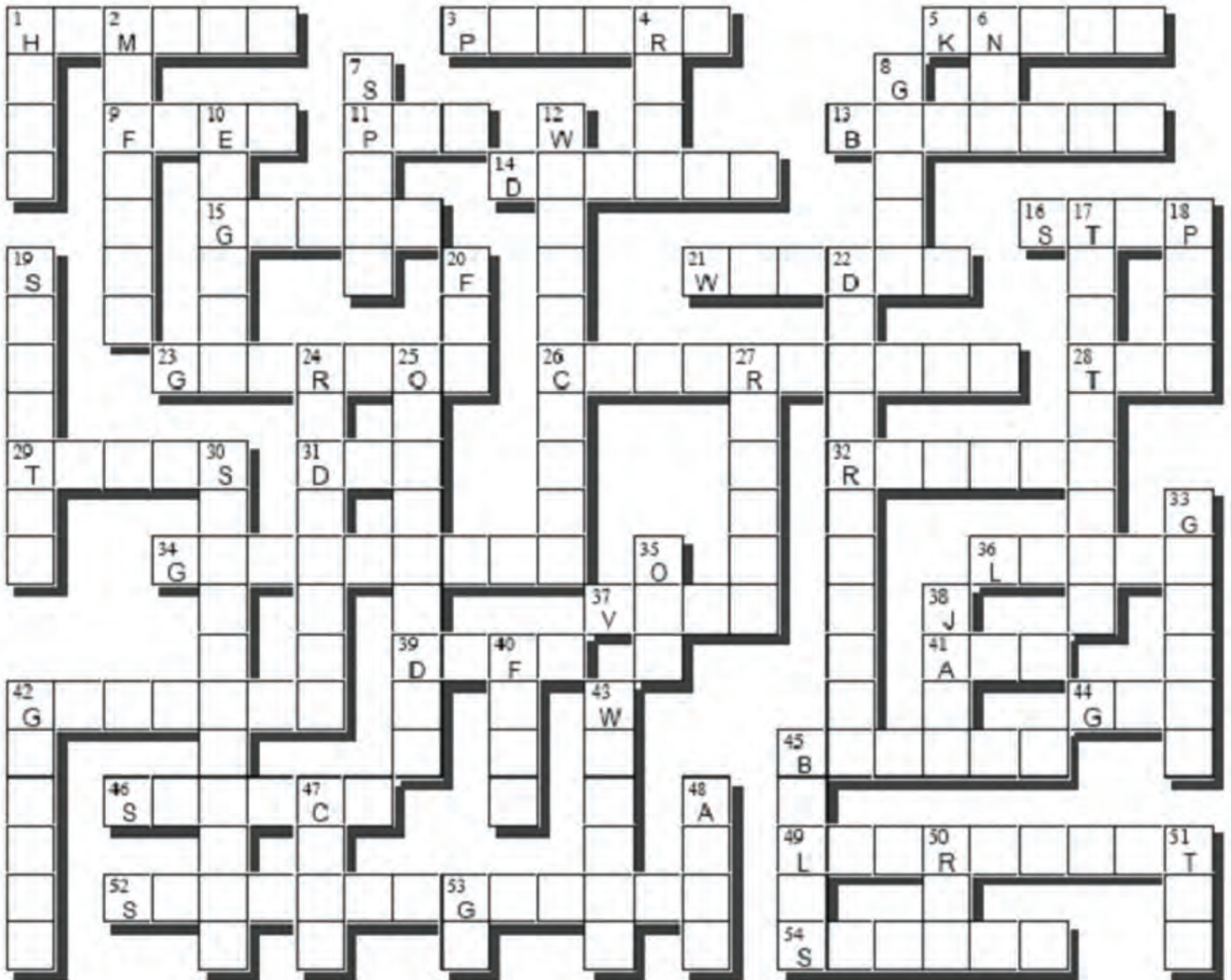
Down Clues

1. Flexible tube that carries liquids or gases (4)
2. Part of the exhaust system that reduces noise (7)
4. Pieces of cloth used to wipe tools and hands clean (4)
6. Metal locking device that fits on a bolt (3)
7. Needed for combustion (5)
8. Instrument used to measure a quantity (5)
10. Machine that converts energy to power (6)
12. Glass forming the front or rear window of a vehicle (10)
17. Operate a machine to check that is is working properly (9)
18. Strong rigid support (4)
19. Adjustable spanner (7)
20. Repair successfully (3)
22. Part of engine that sends electrical current to spark plugs in firing order (11)
24. Mechanism for cooling circulating water in engines (8)
25. Type of spanner used to undo or tighten nuts (9)
27. Take apart or move elsewhere (6)
30. Hand tool used to undo or tighten screws (11)
33. Thick, fatty lubricant for moving parts (6)
35. Liquid used to lubricate an engine (3)
38. Tool that raises and lowers vehicles and other heavy objects (4)
40. Hand tool with small steel cutting teeth (4)
42. Compressible seal between metal surfaces (6)
43. Flat ring of metal (6)
45. Metal rods with a head and threads that fit nuts (5)
47. Popular vehicles (4)
48. Shaft that supports wheels (4)
50. Used in stick welding (3)
51. Metal sheet or container (3)
53. Move forward (2)



MECHANIC

Activity 11.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Farm Mechanic career page to find some of the answers to the clues.



MECHANIC

Activity 11.2 Crossword with Hints

CLUES:

Across Clues

1. Tool with a handle and metal head used for striking objects (6)
3. Hinged hand tool with two arms and gripping jaws (6)
5. Cutting tool (5)
9. Substance burnt to produce heat and power (4)
11. Trench in which mechanics can work (3)
13. Device for storing and generating electricity (7)
14. Type of high compression engine named after its inventor (6)
15. Toothed wheels that engage to transfer motion (5)
16. Move no further (4)
21. Machine used to fuse pieces of metal together (6)
23. Metal casing holding a train of gears (7)
26. Machine used to inflate tyres (10)
28. Thread-cutting tool (3)
29. Inflated rubber rings (5)
31. Tool for cutting external threads (3)
32. Fix something that is damaged or broken (6)
34. Device used to force grease into parts of a machine (9)
36. Rigid bar used to transfer force to a load (5)
37. Metal clamping device usually having a pair of jaws (4)
39. Short for differential (4)
41. Consists mainly of nitrogen and oxygen (3)
42. Device that sharpens tools (7)
44. Fossil fuel (3)
45. Devices for slowing or stopping a vehicle or drive shaft (6)
46. Device for opening or closing an electrical circuit (6)
49. Oily or greasy substance (9)
52. Circular device used to direct the path of a vehicle (13)
54. Soft sediments found in the bottom of tanks, drums and drains (6)

Down Clues

1. Flexible tube that carries liquids or gases (4)
2. Part of the exhaust system that reduces noise (7)
4. Pieces of cloth used to wipe tools and hands clean (4)
6. Metal locking device that fits on a bolt (3)
7. Needed for combustion (5)
8. Instrument used to measure a quantity (5)
10. Machine that converts energy to power (6)
12. Glass forming the front or rear window of a vehicle (10)
17. Operate a machine to check that it is working properly (9)
18. Strong rigid support (4)
19. Adjustable spanner (7)
20. Repair successfully (3)
22. Part of engine that sends electrical current to spark plugs in firing order (11)
24. Mechanism for cooling circulating water in engines (8)
25. Type of spanner used to undo or tighten nuts (9)
27. Take apart or move elsewhere (6)
30. Hand tool used to undo or tighten screws (11)
33. Thick, fatty lubricant for moving parts (6)
35. Liquid used to lubricate an engine (3)
38. Tool that raises and lowers vehicles and other heavy objects (4)
40. Hand tool with small steel cutting teeth (4)
42. Compressible seal between metal surfaces (6)
43. Flat ring of metal (6)
45. Metal rods with a head and threads that fit nuts (5)
47. Popular vehicles (4)
48. Shaft that supports wheels (4)
50. Used in stick welding (3)
51. Metal sheet or container (3)
53. Move forward (2)



MECHANIC

Activity 11.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

O	X	V	I	S	B	D	S	T	E	E	R	I	N	G	W	H	E	E	L	Y	E	R	S	H
X	H	T	S	O	T	E	K	S	A	G	Z	R	E	L	F	F	U	M	T	N	E	L	T	I
L	S	G	L	R	E	V	I	R	D	W	E	R	C	S	P	B	R	L	G	H	U	T	I	P
E	A	T	U	Y	N	D	U	U	I	A	S	R	A	C	Q	Y	I	I	S	D	N	F	P	L
R	S	P	Q	G	W	G	R	E	A	S	E	G	U	N	G	O	N	A	G	R	E	N	L	U
G	R	I	N	D	E	R	P	O	T	S	P	X	R	V	L	E	W	E	X	O	E	P	T	B
R	I	A	P	E	R	H	G	S	T	A	L	I	J	O	I	I	M	V	O	T	R	F	N	R
S	A	X	L	E	O	Y	R	W	A	B	I	F	W	N	T	F	F	I	D	A	C	U	R	I
R	P	S	O	S	T	Q	O	I	P	K	E	A	F	V	R	U	B	A	O	I	S	U	A	C
T	U	R	E	I	F	P	S	T	X	N	R	I	N	E	R	Q	B	T	C	D	D	G	Y	A
R	B	A	N	O	F	R	S	C	E	I	S	R	T	E	H	B	R	I	V	A	N	X	W	N
E	O	E	Q	Y	I	E	E	H	I	F	F	F	D	A	A	E	G	X	R	R	I	E	C	T
X	Z	G	H	Q	L	V	R	P	L	E	I	L	M	T	M	Q	S	G	O	T	W	Y	C	G
E	I	D	P	U	E	E	P	K	E	H	E	M	T	O	J	M	C	E	R	B	S	S	T	S
Q	L	O	Y	G	T	L	M	U	S	W	E	E	V	X	A	N	A	N	K	E	R	I	A	C
K	R	E	O	C	A	E	O	E	E	R	R	E	O	E	C	E	P	U	S	A	A	A	D	G
P	R	K	U	O	C	Y	C	F	I	Y	R	Y	G	C	K	F	E	T	D	E	R	S	E	H
V	S	A	B	F	V	R	X	I	D	Q	L	I	R	O	D	H	A	M	B	V	R	B	E	G
Z	U	I	P	X	N	C	Q	X	V	E	J	R	E	D	N	E	N	E	P	O	X	Y	Z	W
A	J	C	E	S	U	N	N	S	W	X	P	E	G	U	A	G	U	E	U	Q	M	R	T	G

WORDLIST

- | | | | |
|--------|-----------|---------------|------------|
| AIR | AXLE | BATTERY | BOLTS |
| BRAKES | CARS | COMPRESSOR | DIE |
| DIESEL | DIFF | DISTRIBUTOR | ENGINE |
| FILE | FIX | FUEL | GAS |
| GASKET | GAUGE | GEARBOX | GEARS |
| GO | GREASE | GREASEGUN | GRINDER |
| HAMMER | HOSE | JACK | KNIFE |
| LEVER | LUBRICANT | MUFFLER | NUT |
| OIL | OPENENDER | PIT | PLIERS |
| PROP | RADIATOR | RAGS | REMOVE |
| REPAIR | ROD | SCREWDRIVER | SHIFTER |
| SLUDGE | SPARK | STEERINGWHEEL | STOP |
| SWITCH | TAP | TIN | TYRES |
| VICE | WASHER | WELDER | WINDSCREEN |



POINTS OF RAM

Activity 12.1 Find-a-Word

Instructions: There are names for all the parts of an animals body. In livestock we call these parts points. Find the names in the puzzle below and label the ram on the next page.

K	I	E	K	E	M	G	A	R	C	S	X	Y	V	L	E	R	R	A	B
J	A	G	V	O	H	X	E	L	F	I	T	S	P	M	P	L	I	G	O
K	X	P	Z	Q	X	Z	H	I	K	Q	T	T	G	I	R	T	H	J	X
K	B	L	R	J	F	J	I	P	D	O	X	W	O	K	I	A	H	N	K
X	A	V	S	O	J	R	N	Q	N	X	E	K	Q	P	Q	E	E	H	N
W	P	H	H	J	N	M	D	X	F	W	A	C	Z	X	L	T	O	B	A
Q	J	O	A	N	T	L	Q	I	Q	L	I	A	T	E	T	I	S	M	H
I	C	K	U	Z	L	O	U	R	T	A	A	B	C	T	L	R	N	K	S
K	P	W	O	T	C	I	A	B	E	P	F	N	A	O	E	Z	B	E	G
R	T	I	S	V	D	N	R	V	S	W	O	I	K	T	S	B	Z	L	A
T	A	T	X	R	E	S	T	J	T	V	L	A	R	H	F	F	H	I	S
R	E	H	X	Q	W	X	E	P	E	N	W	A	C	U	F	O	K	H	P
D	N	E	S	D	L	T	R	I	S	J	U	S	Y	E	R	R	X	P	I
I	U	R	T	V	A	K	S	L	V	Q	F	J	P	I	O	E	K	J	U
K	O	S	X	B	P	E	M	G	E	S	H	D	J	L	N	A	C	D	Z
Q	R	L	O	K	G	I	T	R	F	H	B	U	Q	U	T	R	V	P	B
M	I	S	X	N	F	V	O	Z	A	T	L	C	W	Q	S	M	M	L	Y
J	B	S	C	S	I	F	N	S	H	O	U	L	D	E	R	U	Q	J	Z
Y	S	M	U	Z	Z	L	E	O	P	O	L	L	W	Y	R	Y	R	Q	E
X	E	W	T	S	E	R	C	E	N	I	L	R	E	D	N	U	A	J	D

WORDLIST

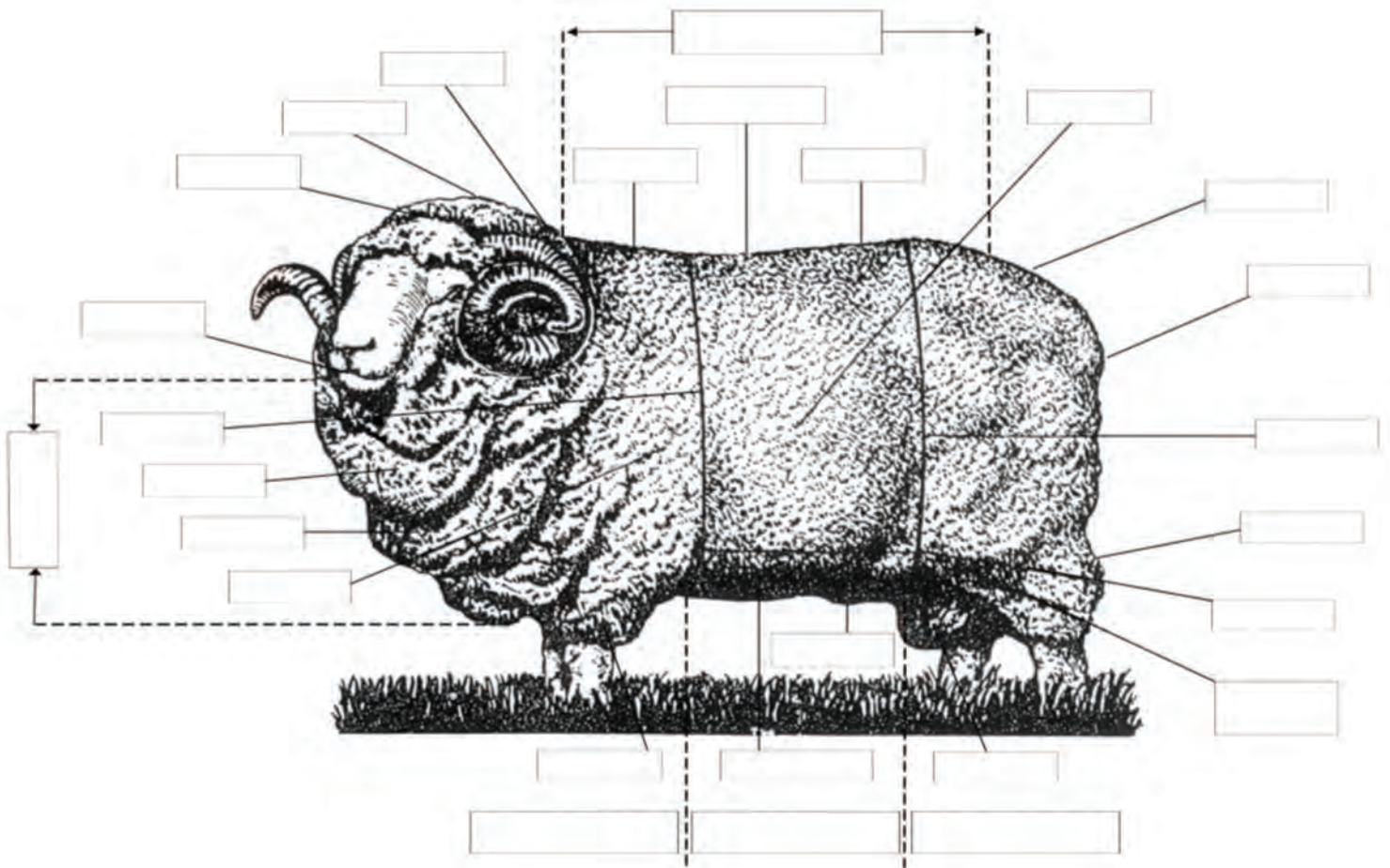
- | | | | |
|----------|-----------|--------------|--------------|
| APRON | BACK | BARREL | CREST |
| DEWLAP | FLANK | FOREARM | FOREQUARTERS |
| FRONT | GIRTH | HINDQUARTERS | HOCK |
| LOINS | MUZZLE | PIZZLE | POLL |
| RIBS | RUMP | SCRAG | SHANK |
| SHOULDER | STIFLE | TAIL | TESTES |
| TOPLINE | UNDERLINE | WITHERS | |



POINTS OF RAM

Activity 12.2 Labelling Diagram

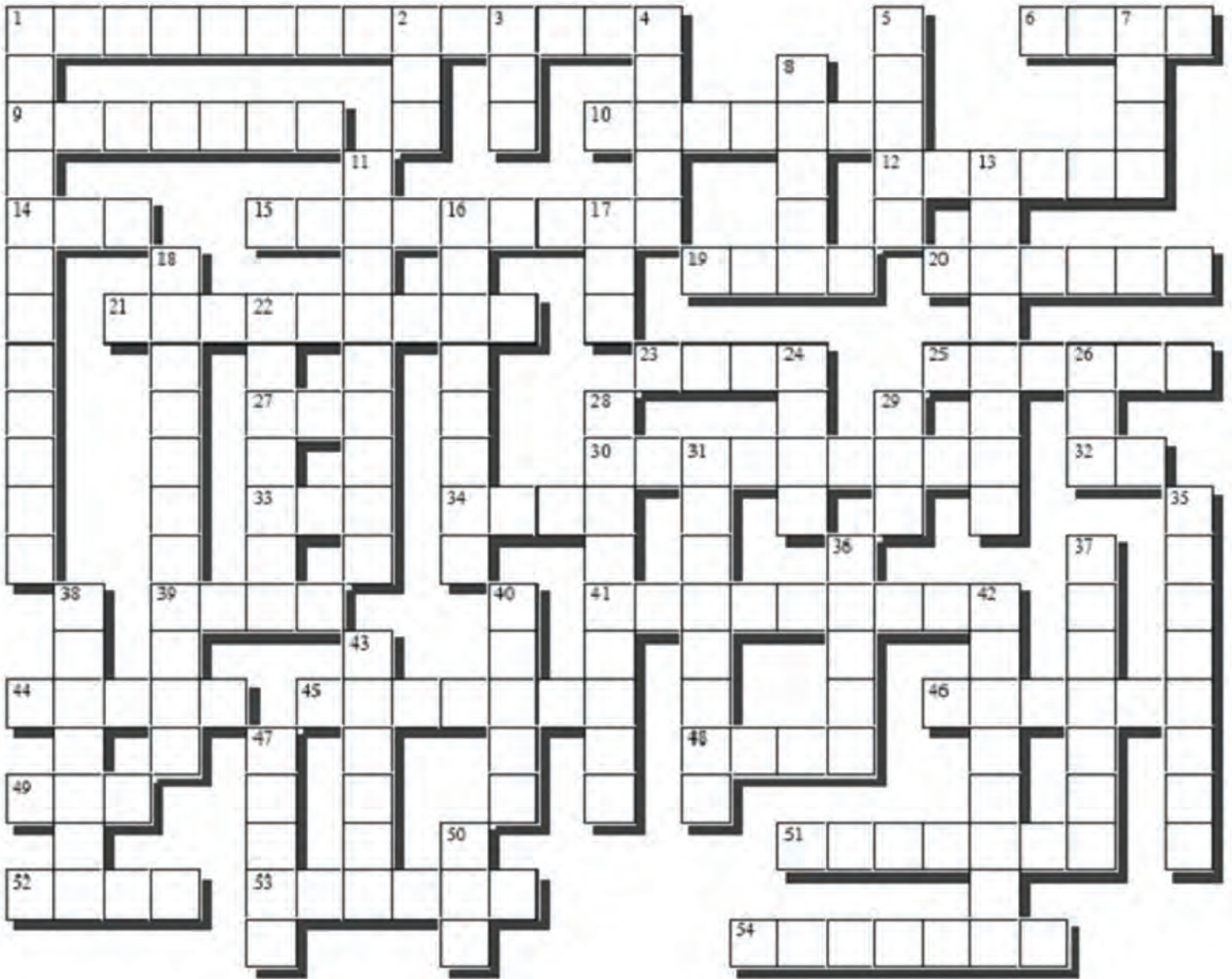
Label the points of the ram below with the names from the wordlist on the previous page.





PRIME LAMB

Activity 13.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword.



PRIME LAMB

Activity 13.1 Crossword

CLUES:

Across Clues

1. Producing meat for sale (14)
6. Baby sheep (4)
9. Public sale (7)
10. Plants grazed by livestock (7)
12. Sell overseas (6)
14. Curved bone (3)
15. Add plant nutrients to soil (9)
19. Prickly seed that catches in fleece (4)
20. Meat from a sheep that has started to get permanent teeth (6)
21. Care of animals (9)
23. Fleece (4)
25. Meat from an adult sheep (6)
27. Faucet (3)
30. Animal that eats plants (9)
32. Depart (2)
33. Female pronoun (3)
34. Woody plant (4)
39. Not common (4)
41. Lamb sold for meat (9)
44. Person who removes bones from meat (5)
45. Portion of animal sold for meat (7)
46. Lamb taken away from its mother and fed on pasture (6)
48. Cut of lamb above shoulder (4)
49. Male sheep (3)
51. Period when ewes are giving birth (7)
52. Exchange for money (4)
53. Organise sale of a product (6)
54. Wrap (7)

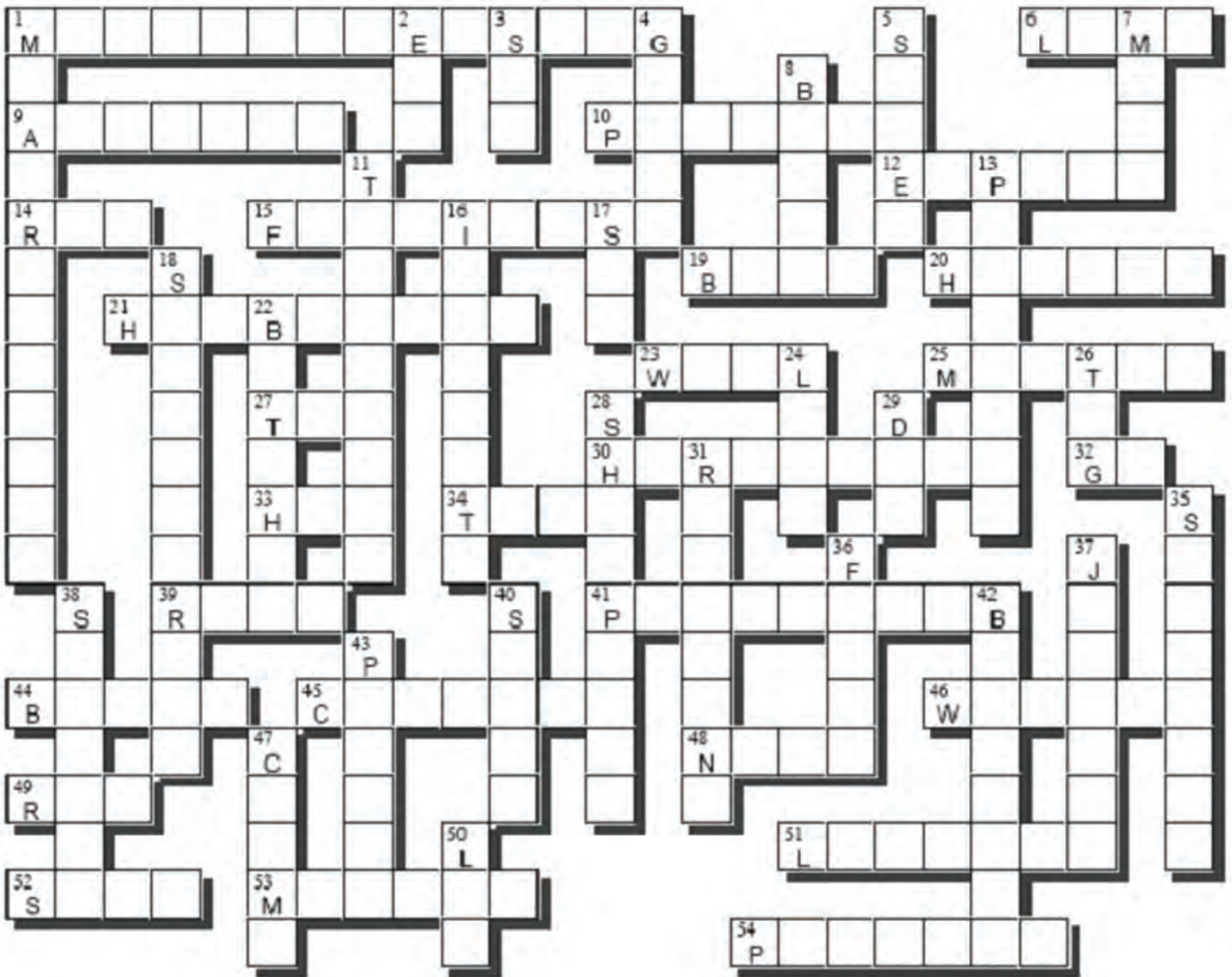
Down Clues

1. Person or business that sells meat (12)
2. Female sheep (3)
3. Become firm (3)
4. Feed on grass (5)
5. Animal that grows wool (5)
7. Flesh (4)
8. Purchaser (5)
11. Move something from one place to another (9)
13. Person who grows a particular food or fibre (8)
16. Supply with water (8)
17. Become firm (3)
18. Store that sells a variety of foods (11)
22. Person who cuts up and sells meat (7)
24. Type of lamb chop cut from the middle of the carcass (4)
26. Label (3)
28. Meat from sheep (9)
29. Four-footed farm worker (3)
31. Mammal with a rumen (8)
35. Removing fleece from sheep (8)
36. Mob of sheep (5)
37. Mating (7)
38. Space used for storing (7)
40. Lower end of a leg of lamb (5)
42. Improving plants or animals by selecting individuals or types to be mated (8)
43. Person who packs meat into cartons and puts them in cold storage (6)
47. Type of lamb chop cut from the leg end of the loin (5)
50. Joint of lamb that is usually roasted (3)



PRIME LAMB

Activity 13.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword.



PRIME LAMB

Activity 13.2 Crossword with Hints

CLUES:

Across Clues

1. Producing meat for sale (14)
6. Baby sheep (4)
9. Public sale (7)
10. Plants grazed by livestock (7)
12. Sell overseas (6)
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52. Exchange for money (4)
53. Organise sale of a product (6)
54. Wrap (7)

Down Clues

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2. Female sheep (3)
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8. Purchaser (5)
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16. Supply with water (8)
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38. Space used for storing (7)
40. Lower end of a leg of lamb (5)
42. Improving plants or animals by selecting individuals or types to be mated (8)
43. Person who packs meat into cartons and puts them in cold storage (6)
47. Type of lamb chop cut from the leg end of the loin (5)
50. Joint of lamb that is usually roasted (3)



PRIME LAMB

Activity 13.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

H	U	N	K	Z	R	H	H	Q	E	W	B	C	F	S	H	E	E	P	M	E	A	T	H	J
N	E	F	O	T	W	K	R	E	T	E	S	E	T	U	G	P	H	O	G	G	E	T	E	R
S	P	R	V	I	H	S	R	V	Y	A	Y	W	G	O	A	E	G	A	K	C	A	P	I	U
H	H	A	B	T	T	T	R	Z	D	N	C	T	A	E	M	T	L	O	I	N	Q	X	R	B
B	L	A	S	I	Y	C	C	I	L	E	T	I	O	H	D	O	X	B	O	E	G	K	E	U
L	O	E	N	T	V	H	U	E	B	R	L	A	M	B	I	N	G	Z	T	M	A	R	C	R
V	A	N	G	K	U	O	M	A	P	E	E	H	S	G	N	I	R	A	E	H	S	X	U	N
N	B	M	E	J	U	R	R	T	E	R	G	A	T	F	K	C	O	L	F	N	G	X	D	W
I	H	Q	B	R	V	M	E	E	G	Q	A	X	J	U	M	T	A	P	P	T	Z	J	O	I
Y	R	D	N	A	B	S	U	H	R	S	N	J	P	R	I	M	E	L	A	M	B	C	R	W
C	T	R	O	P	S	N	A	R	T	G	H	S	G	N	V	C	S	M	C	H	F	E	P	O
A	W	K	C	E	N	S	U	E	N	K	R	U	R	J	Q	V	I	R	K	W	Z	N	N	O
R	E	G	Z	O	E	B	X	I	F	E	U	O	A	T	C	I	L	A	E	B	Y	C	I	L
C	T	N	E	W	M	P	N	Q	H	T	M	N	Z	E	B	R	I	R	R	L	L	E	S	N
A	A	I	E	C	O	I	S	C	Z	Q	I	Y	E	K	E	E	T	E	C	R	P	J	E	O
S	G	D	B	R	O	T	T	E	X	F	N	V	P	R	A	Y	R	H	T	D	F	O	F	T
E	I	E	T	J	X	U	I	A	T	V	A	M	K	A	U	U	E	Q	O	H	E	R	A	T
R	R	E	V	T	B	V	V	U	E	U	N	Z	G	M	R	B	F	G	U	S	Z	C	D	U
B	R	R	E	G	A	R	O	T	S	V	T	P	S	U	P	E	R	M	A	R	K	E	T	M
A	I	B	G	N	I	S	S	E	C	O	R	P	T	A	E	M	Y	K	S	P	M	U	H	C

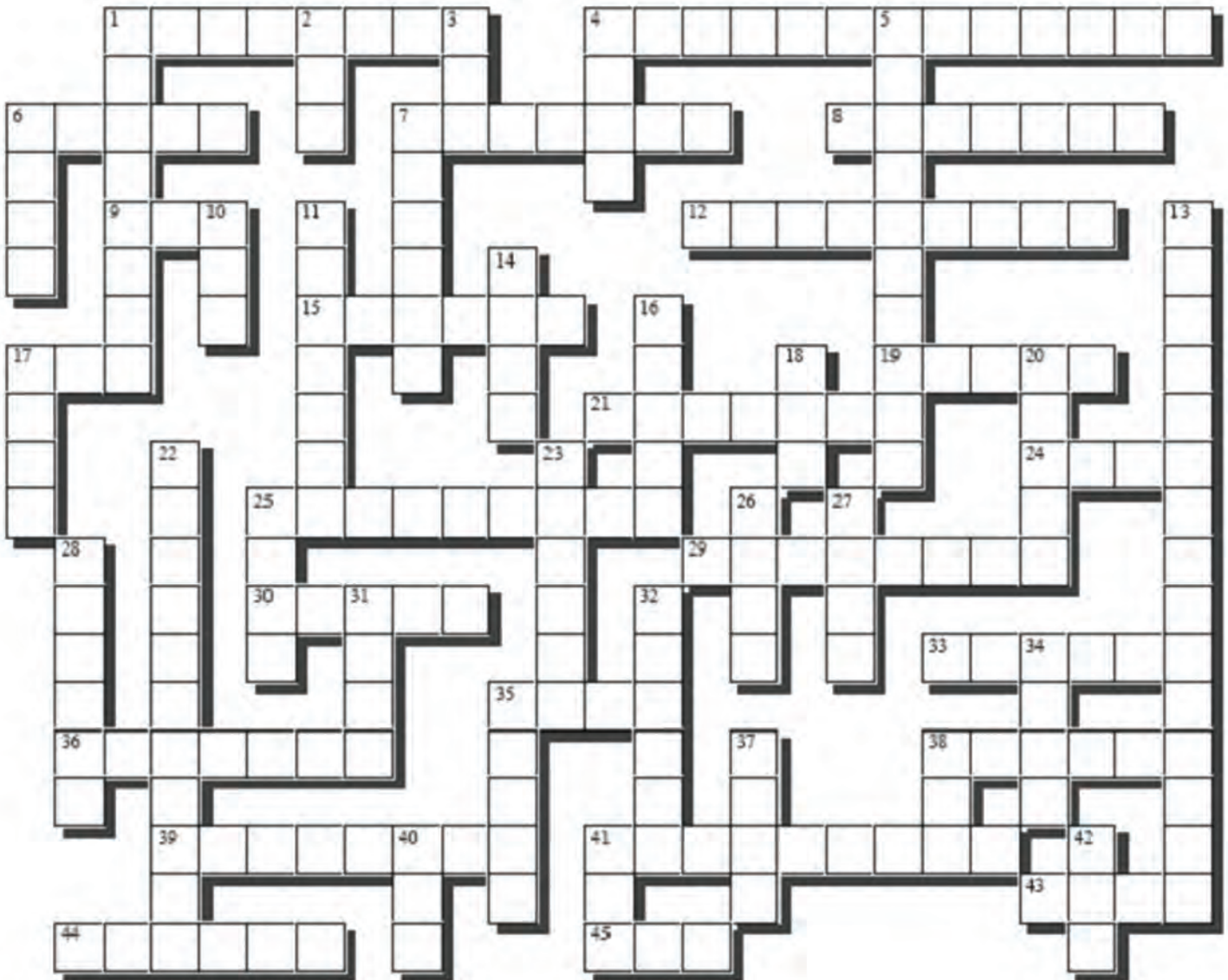
WORDLIST

- | | | | |
|----------------|-----------|----------|-------------|
| SHEEPMEAT | HERBIVORE | RUMINANT | PRIMELAMB |
| PRODUCER | EXPORT | HOGGET | MUTTON |
| SHEEP | MEAT | LAMB | BREEDING |
| FLOCK | LAMBING | WEANER | JOINING |
| SHEARING | PASTURE | GRAZE | FERTILISE |
| IRRIGATE | HUSBANDRY | BUTCHER | SUPERMARKET |
| MEATPROCESSING | PACKAGE | BONER | STORAGE |
| TRANSPORT | AUCTION | BUYER | CARCASE |
| PACKER | MARKET | SELL | LEG |
| SHANK | LOIN | CHUMP | DOG |
| RAM | EWE | WOOL | RARE |
| SET | TAP | HER | RIB |
| SET | BURR | TREE | NECK |
| TAG | GO | | |



SHEARER

Activity 14.1 Crossword



Instructions: Shearers have their own colloquial terms that are used in shearing sheds. Find some of these terms by answering the clues on the accompanying page to fill in the crossword. Use the wordlist to find the answers to the clues.



SHEARER

Activity 14.1 Crossword

CLUES:

Across Clues

1. Large city (8)
4. Sheep losing its teeth (13)
6. Excellent (5)
7. Shearer who has not yet shorn 5000 sheep (7)
8. Person who removes inferior wool from the fleece (7)
9. Manure sticking to the wool (3)
12. Blow-fly maggots on a living sheep (9)
15. The shearers (6)
17. Choice cut of lamb (3)
19. Last sheep in the pen (5)
21. Field (7)
24. Total quantity of wool shorn in a shed or season (4)
25. Progeny of two breeds of sheep (9)
29. Pick up the fleece from the board and throw on the wool table (8)
30. Wool from the sheep's legs (5)
33. Wool stained with urine and yolk (6)
35. Matted locks of wool (4)
36. Put sheep in pens (7)
38. Water works of the sheep (6)
39. Wool shed worker who pens the sheep (8)
41. Shear wool from the crutch area (9)
43. Winter crop for sheep (4)
44. Quickest shearer in the shed (6)
45. Tally of a hundred sheep shorn during a day (3)

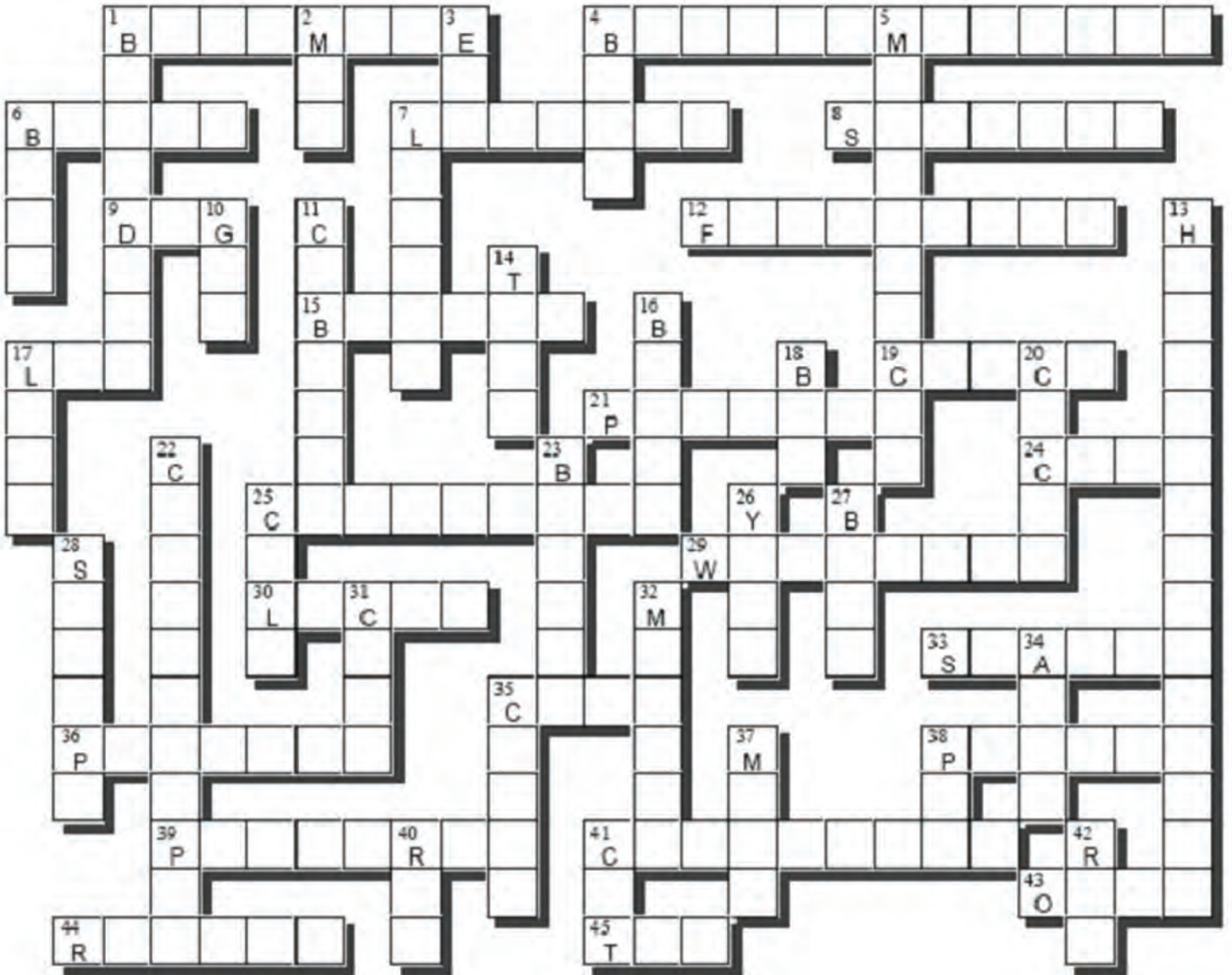
Down Clues

1. To stencil required information on the bale (8)
2. Group of sheep (3)
3. Female sheep (3)
4. Partitions that hold different classes of wool (4)
5. Leave the shed (10)
6. Pack containing wool (4)
7. Fit comb and cutter to a shearer's handpiece (6)
10. Shearer who shears 200 sheep a day (3)
11. Difficult sheep to shear (7)
13. Walk off the job (15)
14. Group of shearers and wool handlers working together in a shed (4)
16. Part of the shed where sheep are shorn (5)
17. Young sheep (4)
18. To mix up the sheep (3)
20. Owner of the property (5)
22. Pen from which shearers catch and drag sheep onto board to shear them (11)
23. Floor needs to be swept (6)
25. Take a sheep out of a mob to even the quality (4)
26. Secretions from glands in the sheep's skin (4)
27. A pass of the shears along the sheep's body (4)
28. Shearer's cry when the catching pen needs filling (6)
31. To cut a sheep (4)
32. Assemble sheep in a mob to be brought in for shearing (6)
34. Hand tool used to build early shearing sheds (4)
35. Favourite meal from lamb or mutton (5)
37. Friend (4)
38. Enclosure inside the shearing shed that holds sheep (3)
40. Large marsupial (3)
41. The end of shearing is called ___ out (3)
42. Male sheep (3)



SHEARER

Activity 14.2 Crossword with Hints



Instructions: Shearers have their own colloquial terms that are used in shearing sheds. Find some of these terms by answering the clues on the accompanying page to fill in the crossword. Use the wordlist to find the answers to the clues.



SHEARER

Activity 14.2 Crossword with Hints

CLUES:

Across Clues

1. Large city (8)
4. Sheep losing its teeth (13)
6. Excellent (5)
7. Shearer who has not yet shorn 5000 sheep (7)
8. Person who removes inferior wool from the fleece (7)
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38. Water works of the sheep (6)
39. Wool shed worker who pens the sheep (8)
41. Shear wool from the crutch area (9)
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1. To stencil required information on the bale (8)
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3. Female sheep (3)
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5. Leave the shed (10)
6. Pack containing wool (4)
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25. Take a sheep out of a mob to even the quality (4)
26. Secretions from glands in the sheep's skin (4)
27. A pass of the shears along the sheep's body (4)
28. Shearer's cry when the catching pen needs filling (6)
31. To cut a sheep (4)
32. Assemble sheep in a mob to be brought in for shearing (6)
34. Hand tool used to build early shearing sheds (4)
35. Favourite meal from lamb or mutton (5)
37. Friend (4)
38. Enclosure inside the shearing shed that holds sheep (3)
40. Large marsupial (3)
41. The end of shearing is called ____ out (3)
42. Male sheep (3)



SHEARER

Activity 14.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

Z	Y	R	L	C	P	F	S	S	T	D	N	I	R	H	N	X	P	Y	L	A	M	B	B	U
U	S	H	B	O	U	O	P	E	E	H	S	E	O	Z	H	U	U	U	Q	W	H	E	K	L
E	J	M	A	E	T	T	I	R	I	O	U	S	O	L	M	H	G	N	I	D	N	A	R	B
K	N	D	Q	E	B	V	B	P	Q	M	M	A	K	E	T	R	A	C	K	S	X	K	M	S
O	C	M	U	U	K	S	E	W	E	O	E	S	N	Y	A	W	A	L	O	O	W	A	Z	R
M	R	A	H	W	S	I	S	X	X	O	B	E	K	T	Y	A	T	R	E	G	N	I	R	A
S	A	O	D	O	Y	L	R	U	U	R	P	G	W	C	S	Z	S	I	B	O	M	A	K	E
G	M	R	R	Z	A	E	K	T	S	B	B	C	I	D	O	N	T	N	S	W	O	U	C	H
I	U	C	V	S	E	A	E	X	S	O	A	O	Z	Y	A	L	D	C	I	K	D	Z	O	S
B	C	N	L	K	L	R	V	T	X	Y	B	T	P	V	L	G	V	H	U	B	K	E	D	E
C	L	O	K	E	K	N	G	U	I	N	L	S	W	J	J	P	X	A	L	L	T	T	D	H
L	T	T	C	L	G	E	J	A	J	B	P	F	Q	E	E	A	N	C	B	A	L	W	A	T
I	Q	U	G	K	O	R	R	E	C	V	G	L	Z	N	B	P	F	Q	M	P	W	O	P	P
P	O	E	U	F	Y	Y	L	B	A	V	R	J	S	S	D	L	I	W	G	B	G	A	R	U
F	V	E	L	Z	Z	I	P	D	V	D	A	C	A	T	C	H	O	H	O	O	S	T	E	G
B	R	U	T	E	S	C	R	U	T	C	H	I	N	G	U	J	J	W	C	A	O	S	T	N
C	O	B	B	L	E	R	R	M	S	L	O	A	D	U	P	E	N	N	E	R	U	P	R	A
S	P	O	H	C	P	Y	C	A	T	C	H	I	N	G	P	E	N	Z	P	D	Q	D	I	H
O	D	S	N	I	A	T	S	A	B	A	L	E	R	B	E	W	R	E	T	S	U	M	K	Y
L	D	V	N	X	N	D	E	H	T	U	O	M	N	E	K	O	R	B	B	E	Y	Z	S	H

WORDLIST

BALE
DAG
BINS
COBBLER
BROOMO
CATCH
CRUTCHING
PEN
PIZZLE
SKIRTER
BOARD
LAMB
CUT
OATS

BEAUT
EWE
BROKENMOUTHED
CROSSBRED
CHIP
COCKY
MATE
PENEMUP
HANGUPTHESHEARS
RINGER
STAINS
BLOW
TEAM
TON
RAM

BRANDING
GUN
LOADUP
CULL
COTS
FLYSTRIKE
PADDOCK
CATCHINGPEN
WOOLAWAY
MOB
CHOPS
CLIP

BIGSMOKE
LEARNER
BRUTES
LOCKS
MAKETRACKS
MUSTER
BOX
PENNERUP
SHEEPO
YOLK
LEG
ROO
ADZE



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

From its beginnings with the small flock of 26 pure-bred Spanish Merinos brought to Australia in 1796, Australia's wool industry has grown over its 200 year history to have a major impact on the financial, social and political development of our country. As the world's largest exporter of greasy wool and with over 100 million sheep, Australia has in past decades 'ridden on the sheep's back'. Listed below is a small selection of the sheep stations that have been prominent in the development of the wool industry.

STATION	NEAREST TOWN	STATE	INTERESTING FACT
Alice Downs	Blackall	Qld	Holds the world record for hand shearing. In October, 1892 Jack Howe shored 321 ewes in 7 hours & 40 minutes with blade shears.
Barcaldine Downs	Barcaldine	Qld	Site of confrontation between shearers and the military/police during the shearer's strikes of 1891 and 1931.
Boodarie Station	Port Hedland	WA	Mustered sheep by fire for decades. When the mobs of sheep were found the stockmen would set fire to the Spinifex bush as a signal.
Brookong	Lockhart	NSW	Regularly shored seven to ten thousand sheep each day in the 97 stand shearing shed built in 1900.
Bungaree	Clare	SA	Home of the South Australian Merino, the tallest and heaviest of the Merinos, bred for arid conditions in the 1860's.
Cranmore Park	Moora	WA	Since its establishment in 1908 scientific innovations were pioneered that were years ahead of their time.



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

STATION	NEAREST TOWN	STATE	INTERESTING FACT
Dagworth Station	Winton	Qld	Place where Banjo Paterson wrote Waltzing Matilda in 1895 based on events occurring in the local district during the Great Shearer's Strike.
Dennistoun	Bothwell	Tas	Continued to use blade shears when most other sheds had converted to machines. All shearers in the shed shored with blades for the last time in 1961.
Dunlop Station	Bourke	NSW	First shearing shed to have all shearers use machine shears, which were installed in 1888.
Egelabra	Warren	NSW	Australia's oldest closed Merino stud established in 1906. The unique bloodline of the sheep can be traced back to the first Spanish Merinos brought to Australia in 1796.
Gostwyck	Uralla	NSW	Site of one of the largest and oldest surviving shearing sheds in Australia, built in 1851 using a modern design that was decades ahead of its time.
Haddon Rig	Warren	NSW	In the 1870's 345 km of boundary and paddock fences were erected using nearly all the fencing materials in Sydney and Melbourne.
Isis Downs	Blackall	Qld	Shearers at Isis Downs started the Queensland Shearer's Union in 1886.



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

STATION	NEAREST TOWN	STATE	INTERESTING FACT
Liveringa Station	Derby	WA	The shearing sheds were built to withstand cyclones. A team of Liveringa shearers was lost at sea during a cyclone in 1912.
Mundabullangana	Port Hedland	WA	Only employed Aboriginal shearers in the 1880's who were said to treat the sheep better than white shearers. Over 800 mules and donkeys were used for most of the station work.
Nareeb Nareeb	Hamilton	Vic	Established in 1839 this station has been burnt out and rebuilt several times.
Newstead	Inverell	NSW	Place where Tom Roberts painted his famous sheep shearing painting, 'The Golden Fleece'
Seven Creeks Run	Euroa	Vic	Famous pioneering sheep run where Mrs W Furlonge established a stud of Saxon Merino sheep in 1835.
Terrick Terrick	Blackall	Qld	One of the most famous merino studs in Queensland, established in 1881. It survived a series of droughts in the late 1800's and has changed hands several times.
Tinnenburra	Cunnamulla	Qld	James Tyson built Australia's largest shearing shed on Tinnenburra in 1895. It had 101 stands for 101 shearers.



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

STATION	NEAREST TOWN	STATE	INTERESTING FACT
Toorale Station	Bourke	NSW	In July 1887 electric lights were installed in the Toorale shearing shed, the first in Australia.
Uardry	Hay	NSW	One of Australia's leading merino parent studs, established in 1864. A famous Uardry ram was immortalised on the Australian shilling from 1938 to 1966 and on the 1991 50 cent coin.
Wanganella	Deniliquin	NSW	Home of the Peppin Merino that was specifically bred to suit a wide range of Australian conditions in the 1860's.
Wellshot Station	Longreach	Qld	The largest sheep station in the world in terms of numbers, with 460,000 sheep in 1892.
Winton	Campbell Town	Tas	The oldest surviving stud in Tasmania, established in 1835. It boasts the purest Saxon Merino flock in the world.

1. Use an atlas of Australia to find the location of the sheep stations by finding each of the nearest towns.
2. Find the names of each of the stations in the Sheep Stations of Australia Find-a-Word.
3. Draw a timeline for the development of the wool industry by using the dates in the Interesting Facts column.
4. Investigate one of the research topics on the following page to find out more about the development of the wool industry in Australia.



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

WOOL INDUSTRY - RESEARCH TOPICS

1. The Australian wool industry is built on the Merino breed of sheep, beginning with a small flock of 26 pure-bred Spanish Merinos brought into the penal colony at Port Jackson in 1796.
 - a. Where did the first flock come from?
 - b. Who were the famous couple that bought the sheep and started breeding them for wool? They had a very interesting history. Find out more about their lives.
 - c. Why is the Merino prized for its wool?
2. The Australian Merino is not a single breed or strain of sheep. Four main strains are recognised in Australia each selected for specific characteristics:
 - Spanish Merino
 - Saxon Merino
 - Peppin Merino
 - South Australian Merino

For each of the four strains of Merino find out:

- a. Where did they originally come from?
 - b. What characteristics do they have?
 - c. What regions of Australia best suit this strain of Merino?
3. One of the innovations pioneered at Cranmore Park in the 1940's was the use of a microscope to measure the diameter of wool fibres. Today all wool undergoes a number of tests before it is sold including the measurement of fibre diameter in microns. A micron is one thousandth of a millimetre. Finer, high quality wools receive higher prices and wool growers breed their sheep to produce wool in a particular micron range. Four main types of Merinos are now recognised in the Australian flock, classified according to the fineness of their fleece:
 - Superfine Wool Merino
 - Fine Wool Merino
 - Medium Wool Merino
 - Strong Wool Merino



SHEEP STATIONS

Activity 15.1 Famous Sheep Stations Research Activity

For each of the types of Merinos find out:

- a. The micron range for the fleece.
 - b. The average weight of greasy wool produced by each sheep.
 - c. The ways in which the textile industry uses this type of wool.
4. The Great Shearer's Strikes of the 1890's were a turning point for Australia's politics and industrial relations.
- a. What were conditions like for shearers and shed hands before the strikes?
 - b. Investigate some of the incidents that occurred during the strikes.
 - c. Who won?
 - d. What were the long-term consequences for Australian politics and industrial relations?



SHEEP STATIONS

Activity 15.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

G	R	V	W	Z	J	V	M	Q	J	Z	A	L	I	C	E	D	O	W	N	S	S	A	Y	B
N	S	N	O	I	T	A	T	S	T	O	H	S	L	L	E	W	F	B	Y	P	S	F	U	K
K	C	T	A	A	R	B	A	L	E	G	E	U	T	H	I	W	L	A	M	K	Q	I	X	M
R	T	N	O	I	T	A	T	S	A	G	N	I	R	E	V	I	L	R	H	C	O	Z	B	U
A	D	U	N	L	O	P	S	T	A	T	I	O	N	E	K	S	V	C	O	I	U	E	E	N
P	L	N	C	D	W	A	N	G	A	N	E	L	L	A	G	Y	A	A	C	R	H	N	E	D
E	N	O	I	T	A	T	S	H	T	R	O	W	G	A	D	L	D	L	I	R	A	U	R	A
R	X	I	P	B	Y	C	W	Q	N	I	S	K	K	N	H	H	W	D	S	E	D	R	A	B
O	T	T	U	U	Q	Z	A	G	E	Q	Y	U	A	R	D	R	Y	I	Z	T	D	S	N	U
M	I	A	A	R	K	B	X	O	G	N	J	Y	J	W	M	A	B	N	R	K	O	K	B	L
N	N	T	D	E	N	N	I	S	T	O	U	N	B	M	E	Y	S	E	I	C	N	E	E	L
A	N	S	N	O	I	T	A	T	S	E	L	A	R	O	O	T	N	D	N	I	R	E	E	A
R	E	E	J	N	J	X	R	W	S	D	L	B	J	A	Q	T	G	O	X	R	I	R	R	N
C	N	I	D	O	L	A	V	Y	B	U	N	G	A	R	E	E	N	W	K	R	G	C	A	G
U	B	R	U	T	D	X	O	C	S	E	T	P	H	Z	C	Y	O	N	F	E	U	N	N	A
C	U	A	E	N	L	U	R	K	D	V	C	V	H	F	Q	Y	K	S	O	T	S	E	N	N
A	R	D	O	I	H	S	E	K	D	A	E	T	S	W	E	N	O	N	J	K	H	V	L	A
M	R	O	M	W	U	T	Q	B	Q	E	U	T	Y	J	O	J	O	X	I	I	Y	E	M	N
X	A	O	H	P	N	I	S	N	W	O	D	S	I	S	I	I	R	E	W	S	R	S	F	M
M	T	B	G	C	K	Y	G	C	A	U	O	R	X	Y	P	F	B	O	I	B	Q	S	Q	T

WORDLIST

- | | | | |
|----------------|------------------|-----------------|-----------------|
| ALICEDOWNS | BARCALDINEDOWNS | BOODARIESTATION | BROOKONG |
| BUNGAREE | CRANMOREPARK | DAGWORTHSTATION | DENNISTOUN |
| DUNLOPSTATION | EGELABRA | GOSTWYCK | HADDONRIG |
| ISIDOWNS | LIVERINGASTATION | MUNDABULLANGANA | NAREEBNAREEB |
| NEWSTEAD | SEVENCREEKSRUN | TERRICKTERRICK | TINNENBURRA |
| TOORALESTATION | UARDRY | WANGANELLA | WELLSHOTSTATION |
| WINTON | | | |



TAX

Activity 16.1 Business Activity Statement

Businesses that are registered for GST (Goods and Services Tax) are required to submit a Business Activity Statement (BAS) to the Australian Taxation Office (ATO) on a regular basis depending on the scale and turnover of the business. The BAS is a system that enables the business owner or manager to calculate and report how much GST they have collected on the goods or services they have sold (sales) and how much they have paid when they have bought goods and services to run the business (purchases). GST in Australia is at a flat rate of ten percent. The difference on the GST between purchases and sales is either paid to or refunded by the ATO.

In the example below a mixed farming business that produces prime lambs and lucerne hay has to calculate and fill out their quarterly (every 3 months) BAS. Help them by doing the calculations. Does the business owe the ATO any GST or will they get a refund?

SALES					
Price/unit excludes GST. GST is 10% of the net amount. Gross amount = Net amount + GST					
Item	Price/Unit \$	No. of Units	Net Amount \$	GST \$	Gross Amount \$
Prime Lambs	95.00/lamb	400			
Lucerne hay	9.00/bale	2,000			
TOTALS					



TAX

Activity 16.1 Business Activity Statement

PURCHASES

Price/unit includes GST.

First calculate Gross Amount = Price/unit x No. of Units and write answers in column.

Calculate GST = Gross Amount / 11

Calculate Net Amount = Gross Amount - GST

Item	Price/Unit \$	No. of Units	Net Amount \$	GST \$	Gross Amount \$
Fuel (diesel)	1.44/litre	5,000			
Oil	500/drum	1			
Seed	1.50/kg	400			
Fertiliser	30/bag	20			
Weed spraying	800/application	2			
Baling twine	65/roll	8			
Dog food	20/bag	5			
Dog worm tablets	25/packet	2			
5 in 1 vaccine	40/pack	2			
Drench	160/pack	1			
Supplementary grain	200/tonne	5			
Livestock cartage	500/load	1			
TOTALS					

Calculate: GST from Sales – GST from Purchases =



TAX

Activity 16.2 Mix-and-Match ATO Acronyms

Acronyms are words formed from the initial letters of a group of words. They are often used as abbreviations for organisations, government departments and official terms. Below is a list of some of the acronyms used by the Australian Taxation Office. Select an acronym from the column on the left and match it to the correct Tax office term.

LIST OF ACRONYMS	DEFINITION	CORRECT ACRONYM
ABN	Student Financial Supplement Scheme	
ABR	Goods and Services Tax	
ADF	Australian Business Register	
ATO	Business Entry Point	
BAS	Capital Gains Tax	
BEP	Approved Deposit Fund	
CGT	Simplified Tax System	
EFT	Ordinary Time Earnings	
ELS	Australian Business Number	
FBT	Electronic Lodgement System	
GIC	Separate Net Income	
GST	Pay As You Go	
HAS	Fringe Benefits Tax	
HECS	Australian Taxation Office	
IAS	General Interest Charge	
OTE	Highest Average Salary	
PAYG	Business Activity Statement	
PIN	Higher Education Contribution Scheme	
SFSS	Instalment Activity Statement	
SNI	Tax File Number	
STS	Electronic Funds Transfer	
TFN	Personal Identification Number	



TRUCKS AND TRANSPORT

Activity 17.1 Maths Activity

CAREER: Livestock Transport

A farm is selling 400 prime lambs to the meat processing works in a town 100 kilometres away. A livestock carrier has been hired to transport the lambs to the works on a semi-trailer with four decks. Each deck holds 100 sheep. The cost of cartage is \$5 per kilometre.

The average weight of each lamb is 50 kilograms with a dressing percentage of 50 per cent. Dressing percentage is the proportion of the lamb that can be sold as meat. The remainder of the lamb is not wasted. The hides are used to make lambskin products and the internal organs and other by-products are manufactured into meat, blood and bone meals, fertilisers and tallow.

At the meat processing works the lambs receive 340 cents per kilogram (dressed weight) and \$10 for each skin.

1. Using the information above calculate the following:

a. The total weight of lambs on each deck of the semi-trailer.

.....

b. The total weight of lambs on the truck.

.....

c. The cost of transporting the lambs to the meat processing works.

.....

d. The dressed weight of each lamb.

.....

.....



TRUCKS AND TRANSPORT

Activity 17.1 Maths Activity

e. The price paid for each lamb.

.....
.....

f. The total price received for the lambs

.....
.....

2. Complete the attached Find-a-Word about trucks.



TRUCKS AND TRANSPORT

Activity 17.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

W	P	F	O	R	D	O	G	N	D	F	R	E	I	G	H	T	L	I	N	E	R	M	U	I
D	N	V	U	W	S	T	I	G	W	G	I	A	X	U	Q	B	E	D	F	O	R	D	M	Q
Q	I	S	N	C	K	V	B	E	Z	N	E	B	S	E	D	E	C	R	E	M	L	R	A	G
O	S	W	I	T	E	T	N	O	S	N	I	K	T	A	R	O	C	B	A	W	A	H	Z	H
C	S	E	M	C	A	T	J	Q	L	K	M	I	I	D	A	T	O	Y	O	T	U	M	D	Z
P	A	S	O	G	N	I	L	R	E	T	S	N	N	E	G	D	O	D	N	F	S	D	A	D
A	N	T	G	S	P	F	F	M	D	N	U	T	D	X	A	L	D	D	I	T	T	I	T	N
I	U	E	E	A	U	T	O	C	A	R	F	E	I	P	U	E	R	L	H	D	A	A	L	A
N	D	R	V	R	O	R	F	A	N	V	O	R	A	J	S	U	W	Q	S	G	H	M	I	L
A	F	N	V	P	P	Q	J	C	V	O	D	N	M	O	T	Z	K	C	A	M	I	O	B	Y
C	Y	S	C	T	T	I	G	C	V	L	E	A	O	K	I	U	P	V	X	U	A	N	R	E
S	S	T	C	E	R	A	L	O	X	V	N	T	N	Q	N	S	O	H	B	V	D	D	E	L
X	I	A	L	I	A	A	M	L	N	O	W	I	D	P	P	I	W	M	G	H	T	T	T	Z
C	T	R	V	E	X	T	N	P	A	F	L	O	R	R	N	N	A	M	K	Z	B	E	E	G
A	I	G	R	N	A	I	D	S	R	R	F	N	E	K	E	U	C	L	I	D	U	L	P	K
J	A	A	T	O	C	D	L	D	T	I	G	A	O	D	M	Y	K	F	Z	W	X	I	S	X
X	M	I	R	Q	M	P	E	X	A	A	K	L	R	E	M	M	O	C	G	I	P	H	Z	D
H	T	R	O	W	N	E	K	R	N	G	R	Q	E	S	H	S	O	K	H	S	O	W	A	D
Q	Q	A	Z	T	I	L	B	T	F	F	U	N	D	A	F	A	F	E	D	E	R	A	L	T
H	Y	U	K	G	A	E	T	I	H	W	M	I	T	S	U	B	I	S	H	I	X	H	E	Y

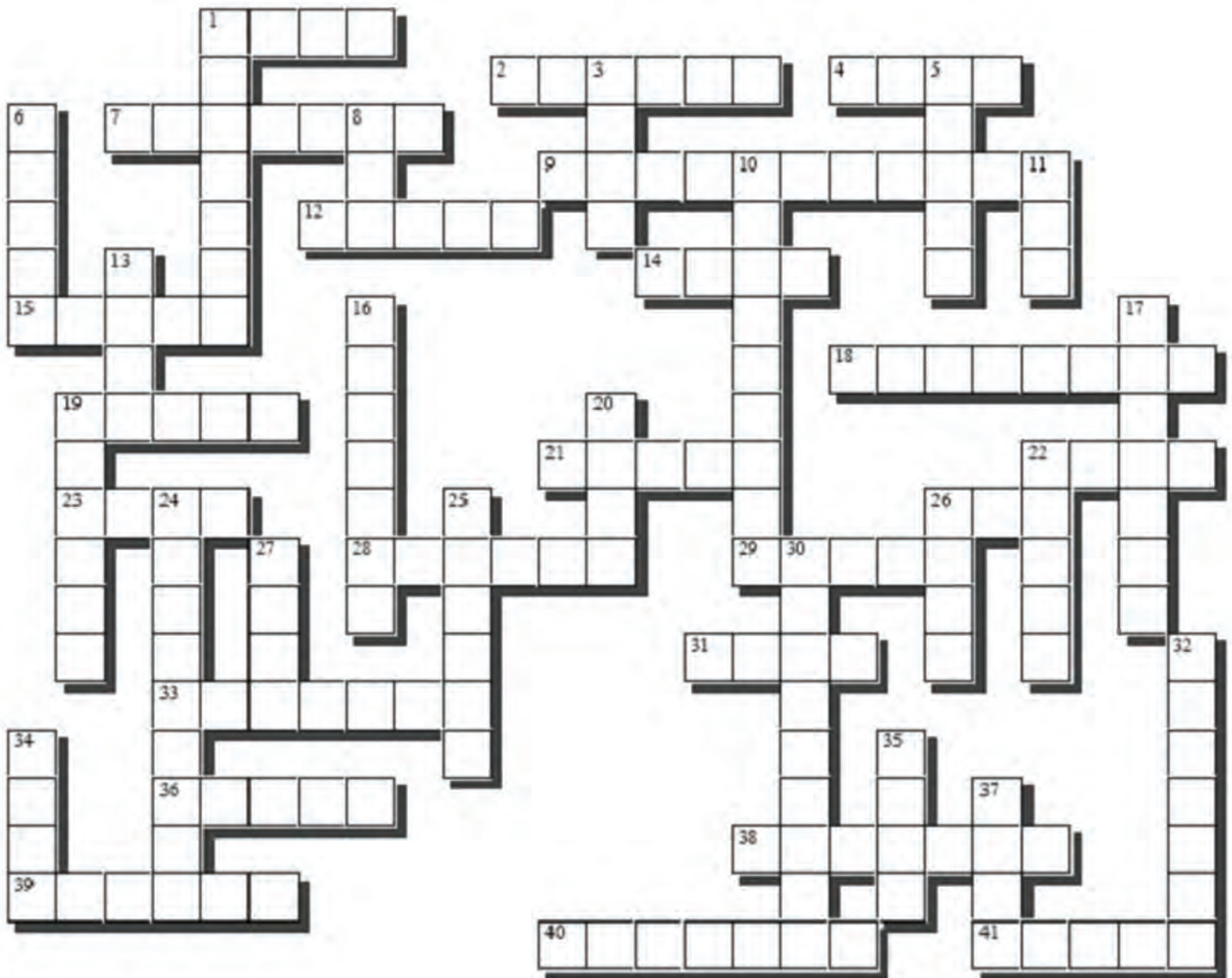
WORDLIST

- | | | | |
|-------------|---------------|---------------|--------------|
| ACCO | AEC | ATKINSON | AUSTIN |
| AUTOCAR | BEDFORD | BLITZ | CATERPILLAR |
| COMMER | DAF | DAIHATSU | DIAMONDREO |
| DIAMONDT | DODGE | EUCLID | FEDERAL |
| FIAT | FODEN | FORD | FREIGHTLINER |
| HINO | INTERNATIONAL | ISUZU | IVECO |
| KENWORTH | LEADER | LEYLAND | MACK |
| MAN | MAZDA | MERCEDES BENZ | MITSUBISHI |
| MORRIS | NISSANUD | OSHKOSH | PETERBILT |
| RFW | SCANIA | STERLING | TOYOTA |
| TRANSTAR | UNIMOG | VOLVO | WABCO |
| WESTERNSTAR | WHITE | | |



WOOL PROCESSING

Activity 1B.1 Crossword



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Wool Processing career pages to find the answers for many of the clues.



WOOL PROCESSING

Activity 1B.1 Crossword

CLUES:

Across Clues

1. Factory (4)
2. Wheel (6)
4. Yarn woven across the width of a fabric (4)
7. Mill (7)
9. Dirt, sweat or vegetable matter in sheep's wool (11)
12. Intertwine (5)
14. Fabric made from a series of loops interlocked into the next row (4)
15. Step in a process (5)
18. Substance used in a reaction (8)
19. Round object on which yarns are wound (5)
21. Sweat (5)
22. Fine, soft hair that forms the fleece of sheep and other animals (4)
23. Twisted top (4)
26. Fix a new colour in a fabric (3)
28. Continuous band of carded, untwisted wool (6)
29. Remove dirt, sweat and lanolin from greasy wool (5)
31. Straighten and align woollen fibres and remove burr and seed (4)
33. Knotted and coiled fibres (7)
36. Set of similar wools (5)
38. Machine that blends different batches of carded wool (7)
39. Fine strand of fibre (6)
40. Short woollen fibres spun into yarn (7)
41. Mix wools together to ensure an even batch (5)

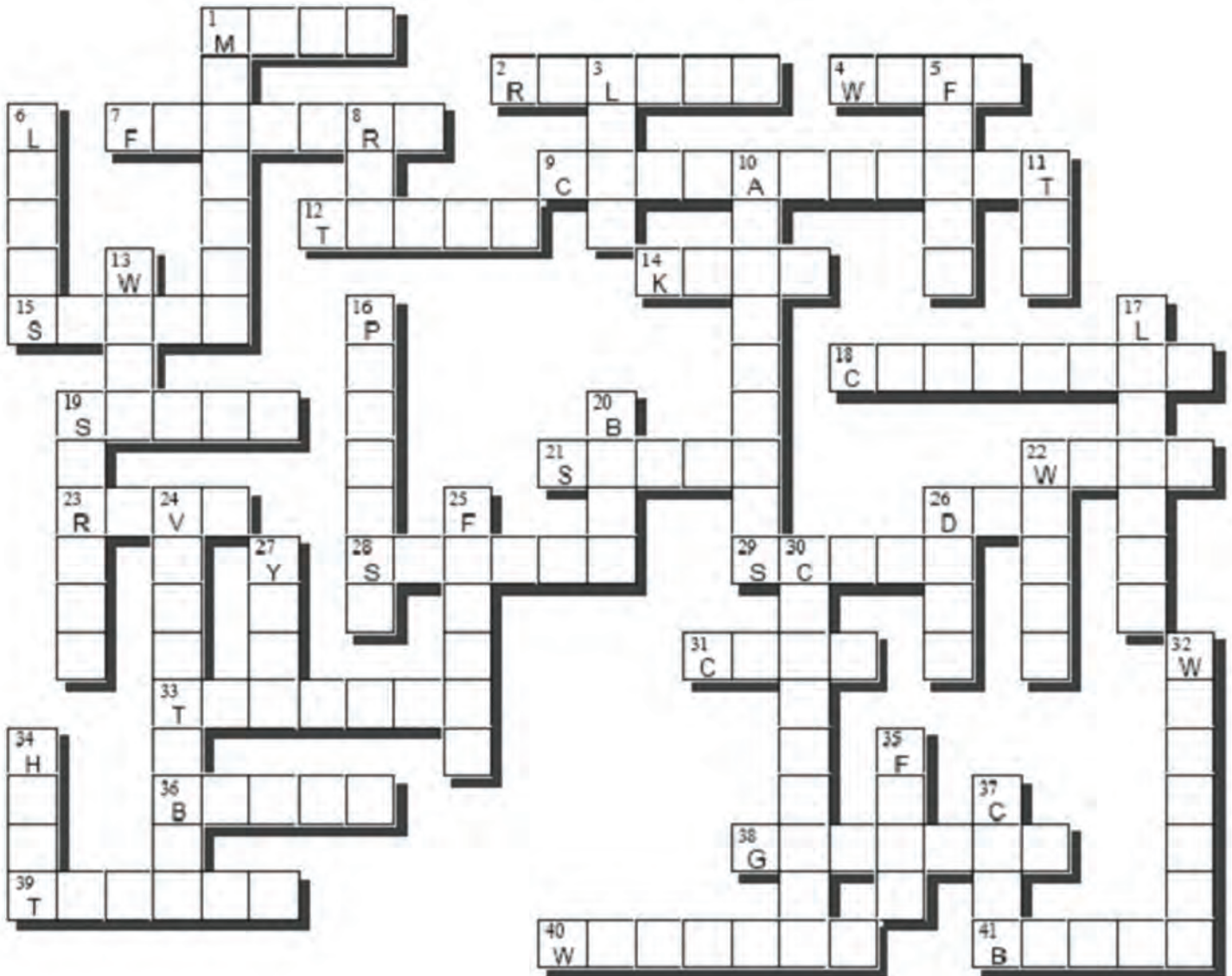
Down Clues

1. Apparatus (7)
3. Apparatus used to weave yarn into fabric (4)
5. Supporting structure (5)
6. Round shapes formed when a fibre curves back on itself (5)
8. Arrangement in a line (3)
10. Tubs in which scoured wool is soaked before carbonising (9)
11. Continuous untwisted strand of combed wool (3)
13. Yarn woven across the length of a fabric (4)
16. Series of actions that achieves a result (7)
17. Greasy substance in sheep's wool (7)
19. Set of fibres (6)
20. Prickly seed (4)
22. Make fabric with warp and weft threads (5)
24. Plant material (9)
25. Look and feel of a fabric (6)
26. Reduce the size and thickness of a sliver of wool (4)
27. Continuous twisted strand of fibre (4)
30. Burn vegetable matter from greasy wool (9)
32. Long woollen fibres spun into yarn (7)
34. Warmth (4)
35. Interlock fibres through mechanical and chemical action with moisture and heat (4)
37. Straighten woollen fibres to remove tangles, short fibres and vegetable matter (4)



WOOL PROCESSING

Activity 1B.2 Crossword with Hints



Instructions: Answer the clues on the accompanying page to fill in the crossword. Use the Wool Processing career pages to find the answers for many of the clues.



WOOL PROCESSING

Activity 1B.2 Crossword with Hints

CLUES:

Across Clues

1. Factory (4)
2. Wheel (6)
4. Yarn woven across the width of a fabric (4)
7. Mill (7)
9. Dirt, sweat or vegetable matter in sheep's wool (11)
12. Intertwine (5)
14. Fabric made from a series of loops interlocked into the next row (4)
15. Step in a process (5)
18. Substance used in a reaction (8)
19. Round object on which yarns are wound (5)
21. Sweat (5)
22. Fine, soft hair that forms the fleece of sheep and other animals (4)
23. Twisted top (4)
26. Fix a new colour in a fabric (3)
28. Continuous band of carded, untwisted wool (6)
29. Remove dirt, sweat and lanolin from greasy wool (5)
31. Straighten and align woollen fibres and remove burr and seed (4)
33. Knotted and coiled fibres (7)
36. Set of similar wools (5)
38. Machine that blends different batches of carded wool (7)
39. Fine strand of fibre (6)
40. Short woollen fibres spun into yarn (7)
41. Mix wools together to ensure an even batch (5)

Down Clues

1. Apparatus (7)
3. Apparatus used to weave yarn into fabric (4)
5. Supporting structure (5)
6. Round shapes formed when a fibre curves back on itself (5)
8. Arrangement in a line (3)
10. Tubs in which scoured wool is soaked before carbonising (9)
11. Continuous untwisted strand of combed wool (3)
13. Yarn woven across the length of a fabric (4)
16. Series of actions that achieves a result (7)
17. Greasy substance in sheep's wool (7)
19. Set of fibres (6)
20. Prickly seed (4)
22. Make fabric with warp and weft threads (5)
24. Plant material (9)
25. Look and feel of a fabric (6)
26. Reduce the size and thickness of a sliver of wool (4)
27. Continuous twisted strand of fibre (4)
30. Burn vegetable matter from greasy wool (9)
32. Long woollen fibres spun into yarn (7)
34. Warmth (4)
35. Interlock fibres through mechanical and chemical action with moisture and heat (4)
37. Straighten woollen fibres to remove tangles, short fibres and vegetable matter (4)



WOOL PROCESSING

Activity 1B.3 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

N	I	N	C	H	E	M	I	C	A	L	U	U	F	S	U	I	N	T	V	H	U	M	N	E
T	F	E	W	C	U	F	I	A	V	B	V	M	A	L	T	C	D	Y	E	T	D	R	L	Y
A	C	I	D	B	A	T	H	S	N	A	L	J	Y	W	G	X	Y	P	Q	V	M	R	H	S
Y	M	U	O	H	X	O	B	L	L	I	G	E	T	S	O	N	B	A	X	Y	D	C	A	Q
N	B	E	G	A	T	S	U	I	G	T	N	Y	N	O	D	O	I	T	I	N	K	J	H	C
N	E	A	I	Y	P	P	U	O	Y	S	R	M	A	D	L	A	L	C	E	M	A	R	F	A
C	N	Q	P	G	R	R	Y	T	I	O	V	L	N	P	O	O	T	L	A	I	G	M	Y	Q
W	E	B	M	O	C	U	A	C	T	E	U	S	I	B	O	S	A	W	E	L	D	J	T	A
L	U	S	L	R	S	E	O	C	E	L	X	I	M	Z	P	L	N	O	L	N	O	Q	A	Q
V	A	G	I	Q	H	U	A	C	N	F	A	T	A	Z	S	R	G	V	K	O	C	O	Z	W
E	R	L	C	N	D	F	F	R	S	T	P	E	T	C	E	P	L	S	Z	Y	O	D	W	H
G	A	F	B	I	O	F	P	T	R	J	P	R	N	T	V	X	E	S	J	J	R	P	A	O
E	H	P	M	A	E	B	S	N	M	U	O	V	O	H	O	L	S	E	A	Q	Y	W	S	R
T	M	X	N	L	T	I	R	V	G	S	B	D	C	T	R	U	O	C	H	E	D	A	R	E
A	Z	X	T	H	W	C	N	A	H	S	B	K	H	V	H	N	K	O	I	V	R	R	E	V
B	F	X	B	T	Y	L	H	V	C	Y	A	R	N	J	G	R	V	R	M	A	A	P	L	I
L	A	Z	P	O	T	Y	E	N	I	H	C	A	M	H	D	A	E	P	Q	E	W	Q	L	L
E	W	S	L	A	N	O	L	I	N	X	N	H	S	I	N	I	F	A	S	W	S	P	O	S
S	E	B	K	Y	K	C	B	W	O	R	S	T	E	D	W	V	S	P	D	A	D	F	R	Z
X	Z	E	B	R	A	F	S	T	R	A	N	D	M	I	L	L	C	R	O	W	Y	B	V	J

WORDLIST

SCOUR
COMB
WEAVE
WOOL
SUINT
FINISH
ROVE
FRAME
THREAD
FACTORY
PROCESS
ROLLER

CARBONISE
DRAW
FELT
LANOLIN
BURR
TANGLES
STRAND
WEFT
LOOPS
CHEMICAL
YARN

CARD
BLEND
WORSTED
ACIDBATHS
CONTAMINANT
VEGETABLE
BATCH
WARP
MACHINE
ROW
LOOM

GILLBOX
DYE
WOOLLEN
KNIT
SLIVER
TOP
SPOOL
STAGE
MILL
HEAT
TWIST



WORKING DOGS

Activity 19.1 Working Dogs of the World

CAREER: Working Dog Breeder/Trainer

Humans and dogs have had a very close relationship for thousands of years. Today there are hundreds of distinct breeds of dogs. Individual dogs were selected for a particular set of characteristics and bred for a specific role. Many of these breeds were developed to help people in their work. The list below is a selection of working dogs from around the world, their place of origin and the jobs they were bred for.

BREED	PLACE OF ORIGIN	WORK DUTIES PERFORMED
Alaskan Malamute	Alaska, USA	Sled dog and companion.
Australian Cattle Dog (Blue or Red Heeler)	Australia	Mustering and droving cattle.
Australian Kelpie	Australia	Mustering and yarding sheep and cattle work.
Bernese Mountain Dog	Switzerland	Herding animals and pulling heavy loads (draught dog).
Black and Tan Coonhound	USA	Hunting and tracking.
Border Collie	England and Scotland	Herding sheep, cattle and anything else that moves. Also used as a guide dog.
Briard	France	Sheep herding.
Cocker Spaniel	England and Spain	A gundog used for hunting rabbits and game birds.
German Shepherd	Germany	Originally a sheep herder. Now used as a guide, police, guard and military dog.
Gordon Setter	Scotland	Bird-finding gundog.
Hungarian Vizsla	Hungary	Gundog and retriever used for hunting.
Huntaway	New Zealand	Sheep and cattle herding.



WORKING DOGS

Activity 19.1 Working Dogs of the World

BREED	PLACE OF ORIGIN	WORK DUTIES PERFORMED
Labrador Retriever	Newfoundland, Canada	Originally assisted fisherman to land nets. Became a popular gundog. Now used as a seeing eye (guide) dog for the blind.
Maremma Sheepdog	Italy	Defending flocks of sheep and goats from wolves, bears, eagles and thieves.
Newfoundland	Newfoundland, Canada	Life-saving water dog and retriever.
Pembroke Welsh Corgi	Wales	Cattle dog.
Pharaoh Hound	Egypt and Malta	Hunting rabbits.
Portuguese Water Dog	Portugal	Catching and retrieving fish and rabbits. Guarding fishermen's nets and boats.
Pyrenean Mountain Dog	France	Guarding and herding sheep.
Rottweiler	Germany	Hunting wild boar. Working as a cattle dog and draught dog for butchers and cattle dealers.
Rough Collie	Iceland and Scotland	Sheep dog and companion dog.
Saluki	Middle East	Hunting gazelles
Shetland Sheepdog	Shetland Islands	Sheep herding and working with horses.
St Bernard	Switzerland	Mountain rescue dog.



WORKING DOGS

Activity 19.1 Working Dogs of the World

WORKING DOGS OF THE WORLD

Groups such as the list of working dogs can be broken down into smaller categories.

1. Use an atlas to find the country or region that each dog comes from. Five of the world's continents are represented. Fill out the table below by naming the five continents and writing the name of each breed in the correct column.

	CONTINENT				
WORKING DOG BREEDS					



WORKING DOGS

Activity 19.1 Working Dogs of the World

2. Another way to classify the dogs would be to group them according to the work they do. Draw up your own table on the back of this sheet. At the head of each column write the type of work. Then fill in each column with the names of the breeds that do that type of work.
3. List other ways that the dogs could be classified.
4. Choose a breed that you have never heard of before and find out more about it.
5. The Kelpie and the Cattle Dog are very important workers on our Australian farms.
 - a. Research the origin of each breed.
 - b. What are the characteristics farmers are looking for in each breed?
6. Select the breed that you would like to have as a pet. Find out how to look after it.
7. Complete the attached find-a-word about working dogs of the world.



WORKING DOGS

Activity 19.2 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

P	R	I	T	H	U	N	T	A	W	A	Y	I	J	S	R	N	O	A	C	O	B	K	S	H
H	E	K	A	C	C	G	O	D	N	I	A	T	N	U	O	M	K	A	A	D	H	S	H	C
L	S	M	L	O	W	T	W	B	R	E	T	T	E	S	N	O	D	R	O	G	I	R	E	I
A	E	O	A	O	Z	C	W	F	P	F	P	H	A	R	A	O	H	H	O	U	N	D	T	O
B	U	H	S	N	N	L	E	I	N	A	P	S	R	E	K	C	O	C	J	A	V	D	L	P
R	G	U	K	H	R	S	L	B	N	B	Z	I	S	F	X	X	S	J	D	Z	R	C	A	A
A	U	N	A	O	O	A	S	R	E	E	K	A	U	Z	U	N	N	C	J	E	E	A	N	R
D	T	G	N	U	T	Y	H	O	K	R	O	M	N	I	Q	X	M	E	H	B	V	T	D	D
O	R	A	M	N	T	K	C	U	O	N	N	M	R	C	X	I	T	P	O	O	E	T	S	N
R	O	R	A	D	W	S	O	G	R	E	T	E	W	E	S	Z	E	R	O	O	I	L	B	A
S	P	I	L	Y	E	U	R	H	B	S	P	R	B	R	L	H	D	H	T	I	R	E	F	L
A	Y	A	A	F	I	H	G	C	M	E	G	A	G	Z	S	E	O	K	G	N	T	D	X	D
L	R	N	M	Q	L	N	I	O	E	B	W	M	I	N	R	W	E	B	W	E	E	O	U	N
U	E	V	U	Y	E	A	Z	L	P	M	R	K	A	C	B	Y	V	H	Q	W	R	G	X	U
K	N	I	T	S	R	I	Q	L	M	Y	V	M	O	G	O	D	P	E	E	H	S	M	K	O
I	E	Z	E	O	D	R	A	I	R	B	R	L	E	L	U	N	A	B	B	U	H	Z	M	F
H	A	S	K	M	R	E	X	E	X	E	L	N	L	W	V	E	R	M	S	W	L	C	X	W
Q	N	L	E	O	E	B	O	C	G	I	D	R	A	N	R	E	B	T	S	L	L	B	H	E
Q	A	A	N	U	X	I	O	K	E	L	P	I	E	X	P	G	O	D	R	E	T	A	W	N
Y	L	K	V	B	E	S	H	M	B	L	A	C	K	A	N	D	T	A	N	S	A	W	W	U

WORDLIST

- | | | | |
|-----------------|----------------|--------------|-----------------|
| ALASKANMALAMUTE | BERNESE | BLACKANDTAN | BLUEHEELER |
| BORDERCOLLIE | BRIARD | CATTLED OG | COCKERS PANIEL |
| COONHOUND | GERMANSHEPHERD | GORDONSETTER | HUNGARIANVIZSLA |
| HUNTAWAY | KELPIE | LABRADOR | MAREMMA |
| MOUNTAINDOG | NEWFOUNDLAND | PEMBROKE | PHARAOHHOUND |
| PORTUGUESE | PYRENEAN | RETRIEVER | ROTTWEILER |
| ROUGHCOLLIE | SALUKI | SHEEPDOG | SHETLAND |
| SIBERIANHUSKY | STBERNARD | WATERDOG | WELSHCORGI |



SMALLGOODS

Activity 20.1 Find-a-Word

Instructions: Find each word from the wordlist in the puzzle below. (Hint: 8 directions)

S	T	A	E	M	D	E	S	S	E	R	P	T	S	R	U	W	R	E	V	I	L	X	F	U
L	A	C	A	C	R	Q	P	R	O	S	C	I	U	T	T	O	I	F	M	P	P	M	V	A
T	S	J	O	A	Y	M	A	H	G	W	I	P	U	C	S	S	A	L	A	M	I	E	X	Z
S	R	B	P	B	V	T	Q	U	Z	A	E	L	V	P	R	S	E	G	A	S	U	A	S	Z
R	E	S	E	A	I	Y	Q	G	B	P	B	P	B	A	U	L	Y	O	N	E	R	T	A	M
U	T	O	P	N	E	E	H	A	P	R	A	R	N	S	W	K	B	R	C	V	C	L	P	O
W	R	P	P	O	N	N	S	E	O	N	A	T	J	T	T	M	C	A	A	T	I	O	P	R
H	U	P	E	S	N	C	R	C	C	W	E	G	F	R	A	N	R	Q	C	H	H	A	O	T
S	F	R	R	S	A	O	K	E	N	K	G	S	E	A	R	J	E	E	P	O	P	F	C	A
I	K	E	W	I	N	W	T	H	S	R	E	L	M	M	B	W	Z	O	X	S	N	N	M	D
E	N	S	U	I	U	T	F	M	U	L	O	G	N	I	D	D	U	P	K	C	A	L	B	E
L	A	S	R	R	A	Y	E	B	O	R	I	C	O	F	E	E	B	T	S	A	O	R	K	L
F	R	O	S	Z	P	R	S	S	I	V	N	I	B	Z	A	S	A	V	E	L	O	Y	U	L
A	F	T	T	O	S	S	S	T	Y	E	Q	R	I	X	I	M	Y	F	N	P	P	A	J	A
Y	I	R	O	T	A	I	C	C	A	C	V	Z	L	W	K	R	A	N	S	K	I	L	O	O
R	G	E	K	R	R	M	E	A	T	P	A	T	T	I	E	S	O	A	B	X	O	R	S	Y
B	M	D	T	T	E	A	W	U	R	S	T	O	O	N	U	Y	Y	H	E	J	B	H	T	Q
H	Q	S	B	A	B	E	K	R	E	N	O	D	N	O	D	M	S	C	C	D	M	P	R	T
J	E	F	S	K	C	O	H	V	E	I	C	R	G	K	G	H	W	C	A	B	A	N	A	D
A	D	E	V	O	N	D	Z	C	H	E	V	A	P	C	I	C	I	E	J	R	D	E	Z	K

WORDLIST

- | | | | |
|--------------|--------------|--------------|-------------|
| BACON | BILTONG | BLACKPUDDING | BRATWURST |
| BRAWN | BROCKWURST | CABANA | CABANOSSI |
| CACCIATORI | CHEVAPCICI | CHORIZO | COPPA |
| CSABAI | DEVON | DONERKEBAB | FLEISHWURST |
| FRANKFURTERS | HAM | HOCKS | KRANSKI |
| LIVERWURST | LYONER | MEATLOAF | MEATPATTIES |
| MORTADELLA | PANCETTA | PASTRAMI | PEPPERONI |
| PEPPERWURST | PRESSEDMEATS | PROSCIUTTO | RISSOLES |
| ROASTBEEF | SALAMI | SAUSAGES | SAVELOY |
| SOJUK | SOPPRESSO | SREMSKE | STRASSBURG |
| TEAWURST | TIROLER | TRIFE | VIENNA |