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Spelling

Series

H

# Science

Student Book



PEG Spelling  
Team Series  
Authors

Student name:

# Science - Unit 1

## Dictation

1. The results of the experiment will confirm my theory.
2. The variable conditions in the investigation led to a different conclusion.
3. We can test our scientific hypothesis in the laboratory.



To make a plural of a word ending in y, change y to i and add es.

theory _____	laboratory _____
energy _____	carry _____
identify _____	technology _____
classify _____	vary _____

Write another two words with these spelling patterns.

<u>pre</u> dict	_____	_____
contin <u>u</u> um	_____	_____
<u>h</u> ypothesis	_____	_____
<u>sc</u> ientific	_____	_____
<u>ex</u> periment	_____	_____
<u>dis</u> crete	_____	_____

Correct the misspelt words. (There are 15 altogether.)

1. The resalts of the experment will confirm our hypothesis.
2. Did you predickt that result?
3. My theary is that the condishons in the labratory were to varyable.
4. After observaton off the spesimen, we concluded that their was a discreet group of insects.

Cross out the correct word/s.

1. The police kept a (discrete / discreet) distance from the suspect.
2. (Discrete / Discreet) data can be shown in a range of graphs.
3. (Discrete / Discreet) data is not ongoing, but is in categories, like types of birds in the backyard.
4. The medical (practise / practice) is in Court Street.
5. We went to the golf (practise / practice) range to improve our swing.
6. You should (practise / practice) the piano every day to improve your techniques.
7. Dad likes to make a (practise / practice) of going for a run every day.
8. The doctor has a large (practise / practice) at the medical centre.

Add an r to each of these groups of letters, then rearrange them to make list words.

s	u
l	e
s	t

c	i
d	e
p	t

m	i
n	c
f	o

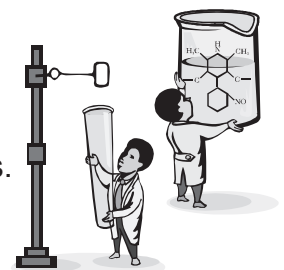
e	i
d	c
t	s
e	

i	p
a	c
t	s
e	

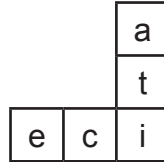
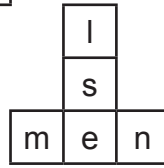
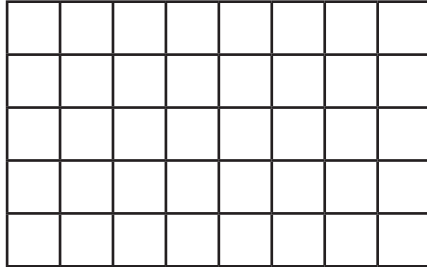
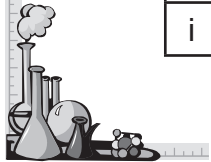
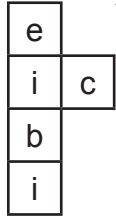
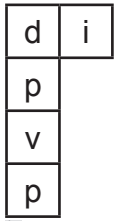
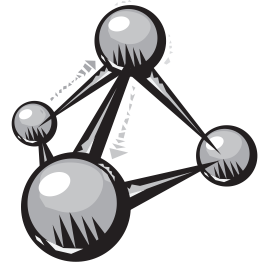
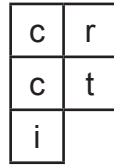
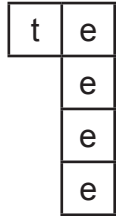
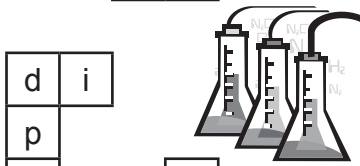
i	e
a	l
a	v
b	

Copy the list words.

1.	results	
2.	confirm	
3.	predict	
4.	theory	
5.	specimen	
6.	experiment	
7.	discrete	
8.	observation	
9.	conclusions	
10.	conditions	
11.	assumptions	
12.	variable	
13.	investigation	
14.	apparatus	
15.	practice	
16.	practise	
17.	scientific	
18.	laboratory	
19.	continuum	
20.	hypothesis	



	r	a	c
s	p		



1.	consequences	results	development	outcome	introduction
2.	theory	conjecture	idea	desire	opinion
3.	costume	apparatus	equipment	machine	gear
4.	stagnant	changeable	variable	transformable	adjustable
5.	assent	confirm	authenticate	negate	prove
6.	example	sample	specimen	excrete	genus

p	r	a
a	a	t
p	u	s

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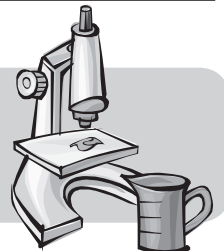
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Write a hypothesis and investigation for the observation that the black bitumen on the road is hot, but the white concrete on the path is cooler.



# Science - Unit 2

## Dictation

1. Solid, liquid and gas are the three states of matter.
2. Molecules being rearranged and moving, is called kinetic theory.
3. Capillary action occurs when the adhesion is greater than the cohesion.

Identify the incorrectly spelt words, and rewrite them correctly.

The number in brackets is the number of errors.

1. On Earth matta can bee a solid, a liquid or a gas. The diffence between these groops is how closely packed together there molleculs are. (7)


2. Cohesion is the fours between molleculs of the saim substans. (4)

--	--	--	--

3. Adhesion is the forc between diffrent types of molleculs. (4)

--	--	--	--

4. Water in a narow glass toob will rize because the adheson (between the water and glass molleculs) is grater than the coheshion (between water molleculs). (7)


Fill in the missing words from list words, then find these words in the wordfind. The leftover letters finish this saying:

Anything t\_\_\_\_\_

\_\_\_\_\_

m	o	l	e	c	u	l	e	s	h	a	t
a	d	h	e	s	i	o	n	m	d	o	e
t	k	i	n	e	t	i	c	o	s	n	t
t	m	a	d	e	n	s	i	t	y	t	t
e	e	r	s	u	b	s	t	a	n	c	e
r	h	a	s	n	o	i	s	e	h	o	c
n	o	m	a	l	i	q	u	i	d	s	s

\_\_\_\_\_ can be a solid, \_\_\_\_\_ or gas. The difference is how closely packed their \_\_\_\_\_ are. All three states have mass, volume and \_\_\_\_\_. If energy is removed from the \_\_\_\_\_ of a gas, or a liquid, this is called the \_\_\_\_\_ theory. \_\_\_\_\_ holds molecules of the same \_\_\_\_\_ together. \_\_\_\_\_ is the force of attraction between different types of molecules.

What do these lead sayings mean?

As heavy as lead. \_\_\_\_\_

Go down like a lead balloon. \_\_\_\_\_

Fill someone full of lead. \_\_\_\_\_

To have a lead foot. \_\_\_\_\_

Swing the lead \_\_\_\_\_

## Copy the list words.

1.	lead	
2.	matter	
3.	atoms	
4.	soluble	
5.	liquid	
6.	density	
7.	vapour	
8.	rearranged	
9.	gravity	
10.	kinetic	
11.	molecules	
12.	elaborate	
13.	evaporate	
14.	evidence	
15.	substance	
16.	adhesion	
17.	cohesion	
18.	diffusion	
19.	capillary	
20.	aqueous	

Find list words that are anagrams of these.

moats \_\_\_\_\_

dale \_\_\_\_\_

gravy it \_\_\_\_\_

tore a bale \_\_\_\_\_

need vice \_\_\_\_\_

at term \_\_\_\_\_

I neck it \_\_\_\_\_

rear danger \_\_\_\_\_

a cray pill \_\_\_\_\_

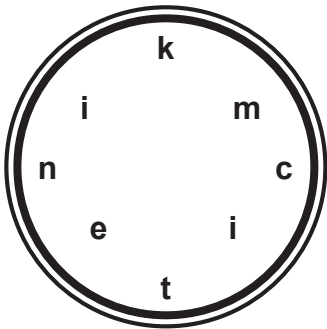
Choose the correct word.

- You should do all drawings in (led / lead) pencil.
- (Led / Lead) is a heavy bluish-grey metal.
- Julius Caesar (led / lead) the Romans into battle.
- The bullets were (maid / made) of (led / lead).
- The marching band (led / lead) the parade down the (mane / main) street.
- Australia (led / lead) the race ahead of the United States, as the runner turned into the (straight / strait).

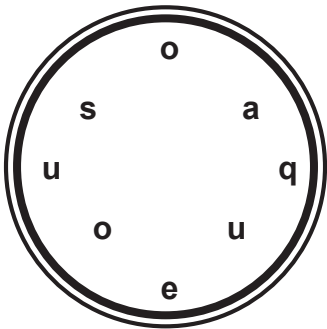
Write 4 more words with the underlined spelling patterns.

<u>a</u> queous				
evapor <u>a</u> te				
cohes <u>i</u> on				
evid <u>e</u> nce				

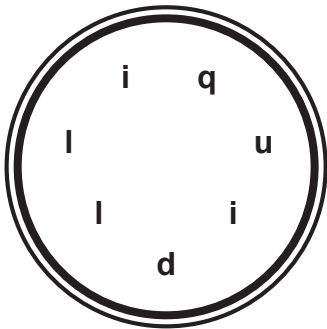
**Ring Words** In each circle below is contained one list word which reads either clockwise or anticlockwise. Can you work them out? Each circle has an extra letter. When they are all put together, they spell a list word that means a very small unit of a substance.



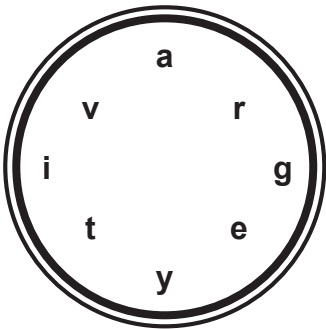
1. kinetic



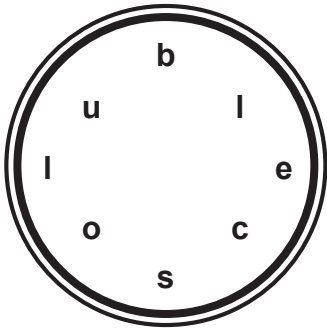
2. osmium



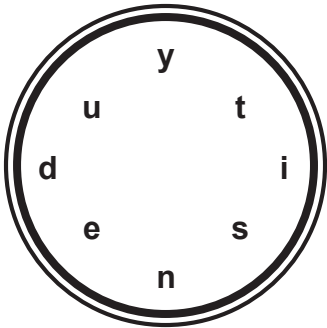
3. quidi



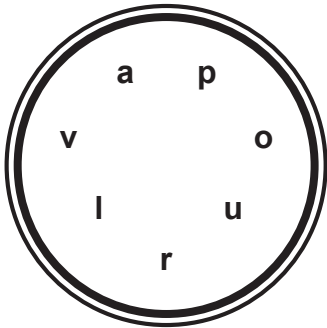
4. argety



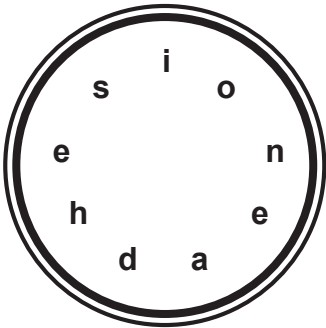
5. bloss



6. yet



7. apour



8. ioned

Follow the word patterns to write missing noun, verb or adjective.

Verb	Noun	Adjective
adhere		
	cohesion	
	diffusion	
evaporate		
evidenced		
		substantial
		vapoury

Writing Ideas

Elaborate on what capillary action is. Does it work for all liquids? Why / why not?

# Science - Unit 3

## Dictation

1. Energy creates all force and causes motion.
2. The wire in a circuit is usually copper as it is a good conductor.
3. Chemical energy is a form of potential energy.

Find a smaller word in each list word that matches the meaning.

refute	ute	a vehicle with cab and tray back
conductor		tube for conducting fluid
vibrations		a fixed allowance of provisions
chemical		to form an edge or border
potential		portable shelter, usually canvas
intermittent		a hand covering
absorb		a sphere or globe
spontaneous		to make brown

Find and circle the incorrectly spelt words. There are 15. Rewrite the words correctly in the box beside.

E5erjy is an invisible fours.  
Cemical energy is energy stored inn chemicals and is releseled when thay are burned. Electrical enegy pushes and electric currant threw a conductor. Heat energy can bee transferred buy conducshion, convection, or radiation.


Unjumble these forms of energy. Determine if they are kinetic or potential, then match them to a source of energy.

hglit	amceclih	auncrle
kinetic/potential	kinetic/potential	kinetic/potential



aeeltcrcl	tahe	usndo	cetlasi
kinetic/potential	kinetic/potential	kinetic/potential	kinetic/potential

## Copy the list words.

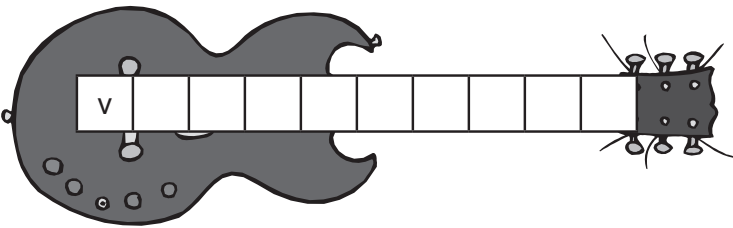
1.	infer	
2.	force	
3.	energy	
4.	refute	
5.	elastic	
6.	absorb	
7.	motion	
8.	radiation	
9.	conductor	
10.	electrical	
11.	insulator	
12.	vibrations	
13.	nuclear	
14.	circuit	
15.	chemical	
16.	potential	
17.	frequency	
18.	vacuum	
19.	spontaneous	
20.	intermittent	



Circle the word in each line that is not a synonym for the first word.

intermittent	interrupted	irregular	rare	disperse
spontaneous	agreeable	lucky	capricious	liberated
vacuum	emptiness	image	space	clean
vibrations	tremors	shakes	quavers	vigils
force	lenient	coerce	compel	intimidate

Solve the clues to fine each word. The letter in the square in each word is part of the word that belongs in the guitar, and is the movements that produce sound.



- a space entirely without matter
- to conclude from evidence
- to take up or receive
- ability to produce action or effect
- springing back or rebounding
- alternately stopping and starting
- the process of moving
- a material through which electrical charges flow easily
- a type of energy that is stored
- arising from an internal force

1.

v

a

c

u

u

m

2.

3.

4.

5.

6.

7.

8.

9.

10.

How many words of three or more letters can you make using these letters? Each word must have the central letter in it, and one word uses all the letters.

i	t	o
t	p	a
e	n	l

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

40 words-excellent,  
32 words-very good,  
25 words-good.

### Antonyms Crosssward

Find the antonyms of these from the list words, then fit them into the crossword.

pre-meditated

\_\_\_\_\_

emit

\_\_\_\_\_

continual

\_\_\_\_\_

springless

\_\_\_\_\_

still

\_\_\_\_\_

insulator

\_\_\_\_\_

### Writing Ideas

What could you infer from this diagram?

A

bright shiny can

B

dull black can



# Science - Unit 4

## Dictation

- Cells that do the same job in an organism are grouped together into a tissue.
- You can observe the sequence of life, from larva to chrysalis.
- Some characteristics that living things share are respiration, digestion and reproduction.

## Choose the correct word.

- Blood is carried to the heart in the (vain / vein / vane).
- A wind (vain / vein / vane) shows the wind direction.
- The (vain / vein / vane) of opal ran (threw / through) the rock in the mine.
- She was (sow / sew / so) (vain / vein / vane) that she looked at herself in every mirror she (past / passed).
- The (larva / lava) (pawed / poured) out of the volcano when it erupted.
- The (larva / lava) of an insect is the first stage after coming out of the egg.
- As the (larva / lava) flowed, everything in its path was covered in molten rock, including the insect (larva / lava).

## Base Words Write the base words for these.

digestion	<b>digest</b>	microorganism	_____
reproduction	_____	multicellular	_____
respiration	_____	fertilisation	_____
characteristics	_____	organism	_____

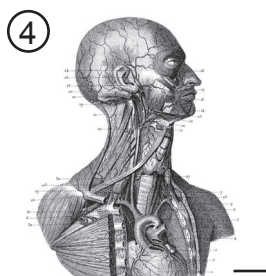
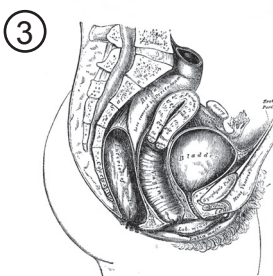
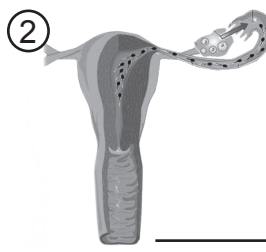
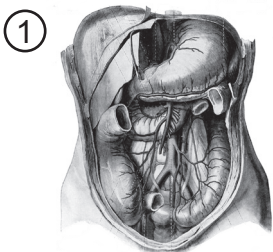
## ation and tion are suffixes used to form an abstract noun.

## Make these verbs into nouns by adding ation or tion.

reject	<b>rejection</b>	respire	_____
fertilise	_____	perspire	_____
inspect	_____	digest	_____
expect	_____	detect	_____
inject	_____	augment	_____
register	_____	implement	_____

## Identify each of these body systems by matching the correct labels.

respiration	reproduction	circulation	digestion	fertilisation
-------------	--------------	-------------	-----------	---------------

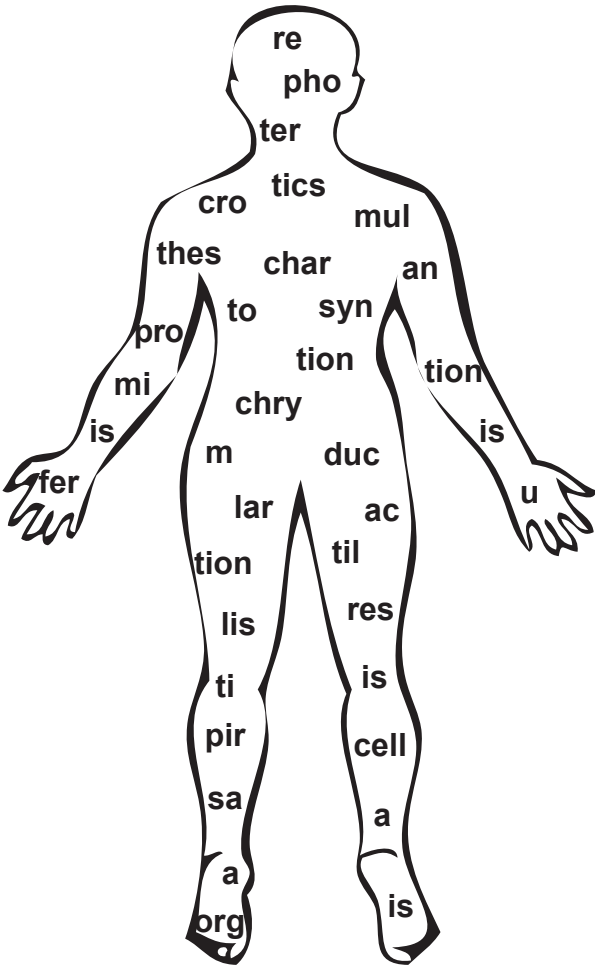


## Copy the list words.

1.	vain	
2.	vein	
3.	cells	
4.	xylem	
5.	nucleus	
6.	tissue	
7.	organism	
8.	observe	
9.	sequence	
10.	larva	
11.	digestion	
12.	gametes	
13.	chrysalis	
14.	characteristics	
15.	respiration	
16.	fertilisation	
17.	reproduction	
18.	photosynthesis	
19.	multicellular	
20.	microorganism	



Fill in the answers to the clues by choosing the correct syllables. Each syllable can only be used once, and the number of syllables is in brackets.



1. Act or process of reproducing (4)  
\_\_\_\_\_
2. Microscopic organism (6)  
\_\_\_\_\_
3. Distinguishing features (5)  
\_\_\_\_\_
4. Composed of many cells (5)  
\_\_\_\_\_
5. Act or process of fertilising (5)  
\_\_\_\_\_
6. The hard shelled pupa of a moth or butterfly (3)  
\_\_\_\_\_
7. Breathing (4)  
\_\_\_\_\_
8. The process in which plants use light energy to make glucose from carbon dioxide. (5)  
\_\_\_\_\_

r	l	c
h	a	i
s	s	y

Excellent= 35,  
Very Good=28,  
Good= 18

**Target Word** How many words of 3 or more letters can you make using the letters in the box? Each word must contain the middle letter.  
**Which word uses all the letters.**\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Find the smaller word in these list words what matches the meanings.

tissue	sue	to institute legal proceedings
organism		a musical instrument
gametes		past tense of meet
observe		to put the ball into play in tennis
respiration		a fixed allowance of provisions
reproduction		a thing produced by an action
multicellular		a microscopic structure containing nuclear material

**Writing Ideas**  
Write and draw the sequence that occurs in the digestion of food.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Science - Unit 5

## Dictation

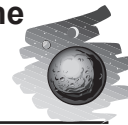
1. A solar or lunar eclipse is when a planet comes between the sun or the moon, and the earth.
2. Can you illustrate the waning of the moon in our hemisphere?
3. The phenomenon of a nebula constellation is unusual.

## Find and circle the incorrect words, then rewrite them correctly. There are 15 errors.

Our planit is won of nine that makes up our soler sistem, witch is the wring of planets circling the son. The planets reflect the lite from the sun. The sun is one of 100 billon stars in our galacksy. The Milki Weigh is one off 10 billion galaxys threiwout the universe.


## Write synonyms for these from the list, then find them in the wordfind.

draw	_____	rotate	_____
hollow	_____	overshadow	_____
occurrence	_____	excuse	_____
circulation	_____	decreasing	_____
season	_____		



The leftover letters answer this riddle.  
**What chocolate bars could you eat in space?**

p	h	e	n	o	m	e	n	o	n	s	o	m
e	n	o	i	t	a	t	o	r	m	i	l	w
k	x	o	n	i	u	q	e	b	y	w	a	a
y	s	a	n	d	e	c	l	i	p	s	e	n
m	a	r	s	b	a	r	e	t	a	r	c	i
j	u	s	t	i	f	i	c	a	t	i	o	n
r	s	i	l	l	u	s	t	r	a	t	e	g

## Find a 4 letter word in these list words that matches the meaning.

planet	narrow street	
crater	standard amount payable	
satellite	make known	
hemisphere	antonym of there	
phenomenon	a prophetic sign	
meteorite	ritual	
rotation	list of duties to be done	

## Copy the list words.

1.	planet	
2.	orbit	
3.	solar	
4.	lunar	
5.	crater	
6.	eclipse	
7.	galaxy	
8.	rotation	
9.	meteorite	
10.	waning	
11.	satellite	
12.	illustrate	
13.	hemisphere	
14.	equinox	
15.	asteroid	
16.	nebula	
17.	constellation	
18.	gravitational	
19.	justification	
20.	phenomenon	

## Add one letter at a time to make a new word each time, and end up with a list word.

a	a
planet	crater

Write three words with the same spelling patterns as the underlined letters.

hemisphere			
satellite			
asteroid			
phenomenon			
constellation			

Cross off words in the box as directed.  
The leftover words, reading left to right,  
top to bottom, will give you a saying  
about space.

Cross off all the planets.  
Cross off all words ending in ation.  
Cross out all the star constellations.



\_\_\_\_\_

\_\_\_\_\_

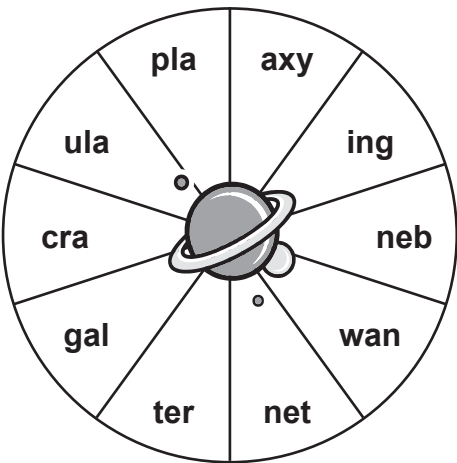
\_\_\_\_\_.

Uranus	Orion	Lyra	Mars
constellation	Mercury	justification	the
universe	is	Jupiter	indication
an	Neptune	infinite	sphere
Venus	gravitation	Saturn	the
centre	of	Centaurus	Pluto
Hydra	Earth	which	identification
is	Pegasus	everywhere	Sagittarius

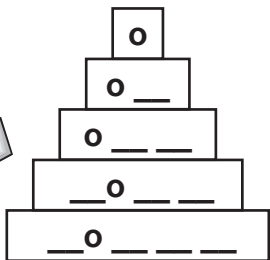
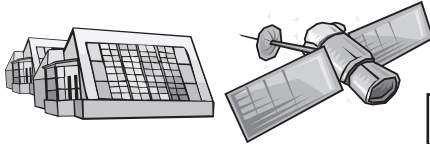
Solar means of or relating to the sun. What do you think these solar things are?

solar battery	
solar energy	
solar system	
solar year	
solar water heater	
solar panels	
solarium	
solar plexus	

Find five  
6-letter words  
by pairing one  
set of three  
letters with  
another. Each  
segment can  
only be used  
once.




Add one letter at a time to  
make a new word in each  
row, ending with a list word.



Writing Ideas

Use the diagram to illustrate and explain how a  
lunar eclipse occurs.

