

Name _____

Year 3 Final Examination Revision sheet -2

Plants

I Do as directed

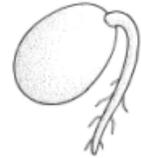
- 1 Oak trees produce acorns. New oak trees grow from the acorn seeds. Look at the picture of the acorn seed germinating.

Circle the correct answer. Which part of the plant comes out of the acorn seed first as it germinates.

- a) Leaf b) Stem c) Root d) Petal



acorn



acorn seed is germinating

- 2 The jay is a bird. It collects acorns from oak trees and buries them in the ground to eat later. Sometimes the jay does not go back for the acorns. The jay helps part of the oak tree's life cycle. Which part of the oak tree's life cycle does the jay help?

Circle the correct answer

- a) Pollination b) Seed dispersal c) Growth d) Seed production

- 3 Write the most likely method by which seeds are dispersed? Which feature of the seed will make it suitable for choosing this type of seed dispersal?



4 How does seed dispersal help plants?

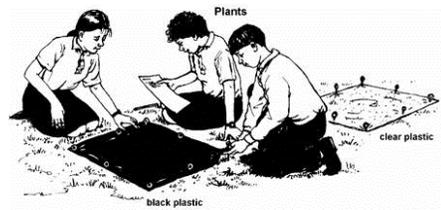
New plants _____.

- 1 can grow in the same place as their parents
- 2 can get more nutrients, light and space to grow
- 3 will make double the oxygen for the environment
- 4 will grow more fruit than the older plants if they are spread out

5 When seeds are buried in soil, from where will they get air to germinate?

- 1 Seeds buried in the soil do not need air to germinate.
- 2 Seeds will get air from the spaces between soil particles.
- 3 Seeds get air only when the baby plant comes out of the soil.
- 4 Seeds buried in soil do not get air and hence do not germinate.

6



a) The children left two squares of plastic on healthy grass for five days. The chart shows what they found when they lifted the plastic.

type of plastic	colour of grass
black	yellow
clear	green

b) Why was the grass **yellow** where the black plastic had been?

c) What do all plants need to grow well? Tick **TWO** boxes.

pots

insects

worms

water

rocks

air

d) Animals take in their food. Plants do not. How do plants obtain food?

e) Which of the following sentences are **true**? Tick **TWO** boxes.

The roots of a plant take in water.

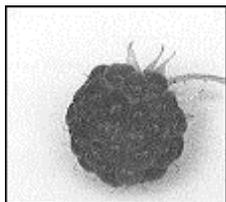
The roots of a plant make seeds.

The roots make food for the plant.

The roots anchor the plant.

The roots of a plant make it green.

7 Jade looks at these berries. Berries contain seeds.



a) Why do plants produce seeds?

b) Tick **ONE** box to show the **main** way that birds help to disperse the seeds in these berries.

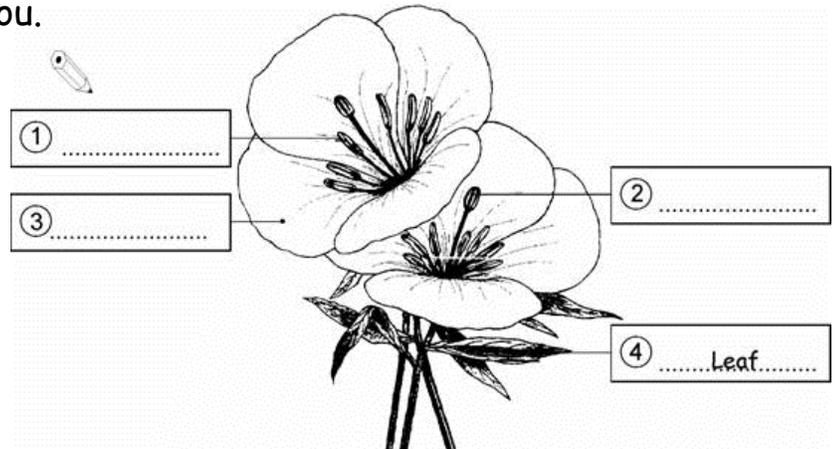
Birds shake the seeds out.

Birds spread the seeds in their droppings.

The seeds catch on the birds' feathers.

Birds carry the seeds in their feet.

8 a) Write in the boxes the correct name for each part of the plant. One has been done for you.



c) The table below describes what these four parts of the plant do. Write the correct number of each part of the plant next to what the part does.

Number	What the part of the plant does
<input type="radio"/>	makes food using sunlight
<input type="radio"/>	produces pollen
<input type="radio"/>	receives pollen
<input type="radio"/>	attracts insects for pollination

8 a) Tracey and Errol observed the growth of the tree. They found the stem of the tree is hard and grown wide.

What do you call the hard stem of a tree?-----

b) The roots take in moisture and nutrients.

Describe **ONE** other thing that the roots do for the tree.

c) The moisture and nutrients reach the leaves. Explain what leaves do to help trees grow well.

d) Which of these describes the tree? Tick **ONE** box.

consumer

predator

prey

producer

9 Bean seeds

a) Aysha has three different types of bean seed. She wants to find out which bean seed germinates most quickly.



Aysha



To make my investigation fair I will use:

- the same type of soil
- watering cans of the same colour.

i) Does using the same type of soil for each bean seed help to make Aysha's test fair? Tick **ONE** box and give a reason for your answer.

yes no

iii) Does using watering cans of the same colour for each bean seed help to make Aysha's test fair? **Yes or No** .Give a reason for your answer.

b) The table shows some of the factors in Aysha's investigation.

Complete the table to show how Aysha should carry out her investigation. Tick **ONE** box in each row.

Factor	Factor to be changed	Factor to be kept the same	Result to be measured
the type of bean seed			
the time taken for the seed to germinate			
the place where the seeds are left			
the type of pot the seed is grown in			

2 marks

10 Laura has four brands of tomato seeds. She wants to know which brand of tomato seed grows best.



You must investigate which brand of tomato seed grows best.

a) The factor I will keep the same to make the test fair.

.....

b) The factor I will measure in my investigation is:

.....

c) **ONE** factor I will keep the same to make my test fair is:

.....

d) In the table below, write the headings you would use for the **results table** in your investigation.

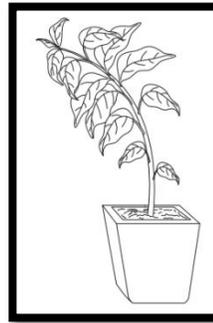
Lee's Seeds	<i>This part would not be filled in until you had done your investigation.</i>
Farmer King's	
Aunt Dora's	
Kathy's Seeds	

11 Which is the correct pathway of water in the plant? Circle one letter.

- A soil → root → stem → leaf
- B soil → leaf → stem → root
- C root → leaf → stem → soil
- D leaf → soil → root → stem

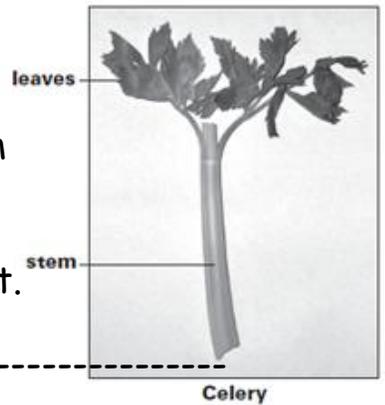
12 This plant is growing near a light.
The light is not shown in the picture.

Write L in the place you think the
light is while this plant is growing.

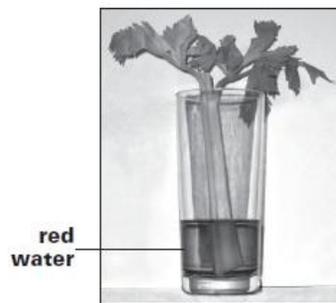


13 Sandeep has some celery. Water can travel up the stem
of the celery to the leaves.

(a) Give **ONE** function of the leaves for the celery plant.



(b) Sandeep puts a stick
of celery in a glass of
red-coloured water.



When the water reaches the leaves, the leaves turn red.

Sandeep wants to find out if the temperature affects how quickly the
water gets to the leaves.

Think about an investigation you could do to find out if the
temperature affects how quickly the water gets to the leaves.

Answer the questions below about your investigation.

i) The variable I will change in my investigation is:

.....

ii) The equipment I will use to measure the time it takes for the red water to get to the leaves is:

.....

iii) **TWO** variables I will keep the same to make my investigation fair are: -----

Magnets and Forces

1 Ivanna has some plastic numbers. Each has a magnet on the back.



i) What will the numbers stick to?

			
envelope	glass table	refrigerator	wooden table
A	B	C	D

ii) What name is given to the ends of a bar magnet?

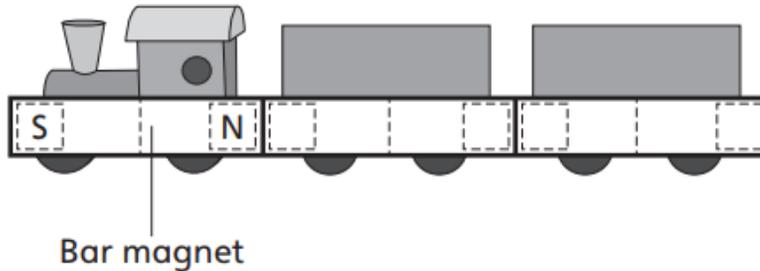


bar magnet

A bars B edges C poles D posts

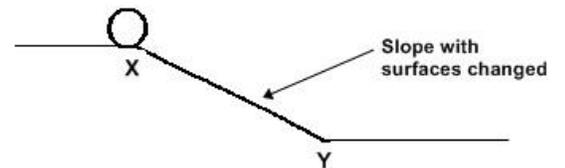
2 Emi uses three bar magnets and some wood to build a toy train.

- (i) Write N (north) and S (south) on the ends of the bar magnets so the train joins together. One magnet has been done for you.



- (ii) What material are bar magnets made from? Circle one letter.
 A copper B iron C plastic D wood

3 Ben wanted to find out how far the marble travelled on different surfaces. He set up an experiment shown below.



He tabulated the results in the table below.

Based on the table above, which of the surfaces is the roughest?

- A. Surface P B. Surface Q
 C. Surface R D. Surface S

Surface	Distance the marble travelled in cm
P	24
Q	13
R	20
S	19

4 Name the force that is pulling the parachute down.



5 Circle the correct word from each box:

A force is a **sound** / **push** or a **smell** / **pull** acting on an **object** / **order**.
 Forces can make objects **start** / **grow** or **burn** / **stop** or go **quicker** / **quieter** or **slower** / **quieter**.

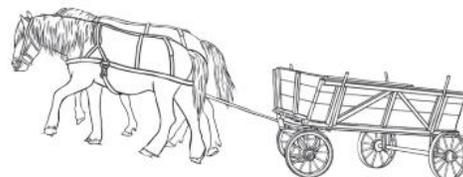
6 Write **push** or **pull** in each row to finish the table below:
 (The first one has been done for you.)

Activity	Push or Pull?
Jumping on a trampoline	push
Hitting a ball with a bat	
Getting ready to fire an arrow	
A car taking a trailer somewhere	
Tying shoe laces	

7 Where is the pushing force coming from in this picture? Draw the arrow to show the force applied.



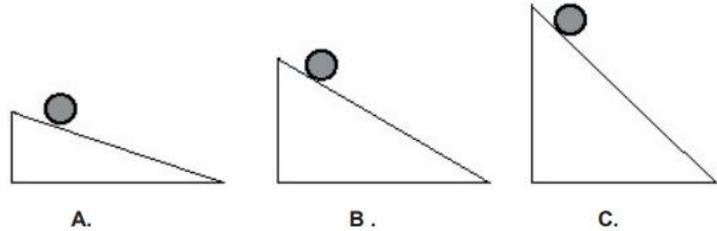
8 Where is the pulling force coming from in this picture? Draw the arrow to show the force applied.



9 What is gravity?

- A. a substance B. a motion C. a force D. an object

10 Which ball would you expect to have the most speed when it hits the bottom of the ramp?



11 A ball is lying on the floor. When will the ball move? A. It will never move. B. When a force acts on it. C. When gravity pulls on it. D. When the lights are turned on.

12 What must be applied to push or pull an object? A. a force B. gravity C. speed D. distance

13 Circle the metals that magnets can pick up:

- | | | | |
|--------|--------|-----------|--------|
| Gold | Iron | Aluminium | Steel |
| Cobalt | Copper | Silver | Nickel |

14 Write attract or repel on these bar magnets below:

Magnets	Attract or Repel?

11 A compass uses magnetism. Which way does a compass always point?

12 Class B carried out an investigation to find out which magnet was the strongest. They did this by testing to see which magnet attracted the most paperclips. The results are shown in the following table

Magnet	A	B	C	D
Number paper clips	26	22	23	48

- 1) Which magnet is the strongest? -----
- 2) Which magnet has the least force? -----
- 3) What material will paperclips need to be made of, for this to work?

13 If we do an investigation on different magnets to see how far away they were before they picked up a paper clip, what would we find out about the magnets?

Here are the results of the magnet investigation

Magnet	Distance when attracted paperclip
Medium sized horseshoe magnet	6cm
Large bar magnet	10cm
Fridge magnet	2cm

- 1) Which is the strongest magnet?

- 2) Which is the weakest magnet?

- 3) Which factor do we measure in this investigation?

- 4) Which factor do we keep the same to make the test fair?

- 5) Which factor do we change in this investigation?
