

Science   Grade V   Practice Worksheet   Unit: 1,3,5,6

**Q.1. Plants are adapted to disperse seeds in different ways.**

**Complete the table to identify the type of seed dispersal for each description. (3)**

<b>PLANT</b>	<b>DESCRIPTION</b>	<b>TYPE OF SEED DISPERSAL</b>
<b>A</b>	seeds are large and lightweight so they float	<b>Water</b>
<b>B</b>	seeds have tiny hooks on them so they attach to things	
<b>C</b>	seeds have wings and are lightweight so they move in air	
<b>D</b>	seeds are found inside fruits so they are eaten.	

**Q.2. Living things are adapted to different environments.**

**Draw a line from each adaptation to the correct reason for that adaptation. (4)**

**ADAPTATION**

Spines instead of leaves

Thick fur

Large flat leaves

Large ears

**REASON**

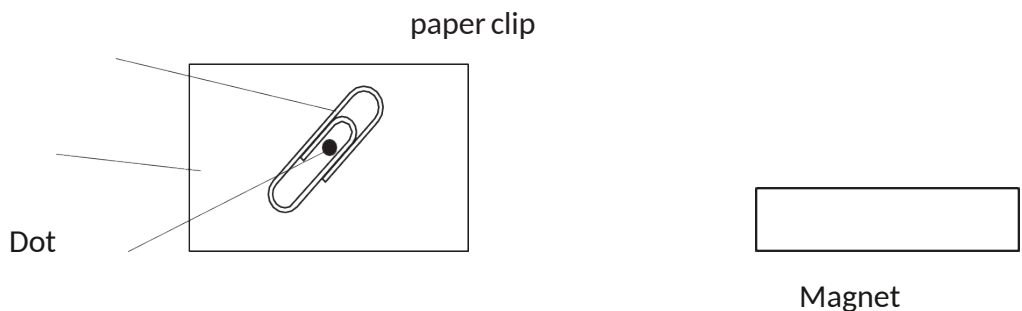
to float on water

to reduce water loss

to keep cool in the desert

to keep warm in the Arctic

Q.3. Ahmed investigates the strength of different magnets. He uses this equipment.



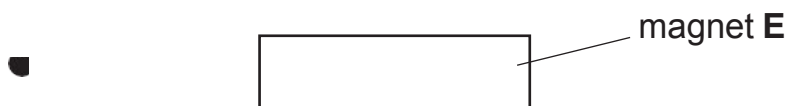
Ahmed:

- draws a black dot on a piece of paper
- puts a paper clip over the black dot
- moves the magnet towards the paperclip until the paper clip starts to move
- measures the distance between the magnet and the centre of the black dot
- repeats this with different magnets.

Here are his results.

magnet	distance between magnet and centre of black dot in mm
A	36
B	32
C	24
D	22
E	.....

(a) The diagram shows the position of magnet **E** when the paper clip starts to move.



Measure the distance between magnet **E** and the Centre of the black dot.

Write your answer in the table.

[1]

(b) Which magnet is closest to the black dot before the paper clip starts to move ?

\_\_\_\_\_ [1]

(c) Which magnet is the strongest?

\_\_\_\_\_ [1]

(d) Suggest **one** way Ahmed improves his investigation to get more reliable results.

\_\_\_\_\_ [1]

Q.4. (a) Class 5 is doing a quiz about dissolving solids.

Complete the quiz. (2)

For each answer write **true** or **false**.

The first one has been done for you.

### Quiz

1. Dissolving is a reversible process.

True

2. A solution is a liquid that dissolves a solid.

\_\_\_\_\_

3. A solvent is a solid that dissolves in a liquid.

\_\_\_\_\_

4. Water is a liquid used to dissolve solids.

\_\_\_\_\_

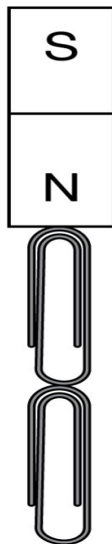
5. A mixture is made when a solid dissolves in a liquid.

\_\_\_\_\_

(b) Describe how to separate a solid from the liquid it is dissolved in? (2)

.....  
.....  
.....

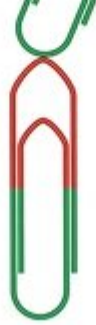
**Q.5. Two learners carry out a test to compare the strengths of two bar magnets. They test each magnet by observing how many paper clips are attracted to the magnet. One learner holds the magnet in the same position. The other learner adds paper clips to the chain.**



a Why are paper clips attracted to a bar magnet?  
\_\_\_\_\_ (1)

b What is the independent variable in this investigation?  
\_\_\_\_\_ (1)

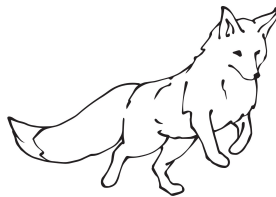
c What is the dependent variable in this investigation?  
\_\_\_\_\_ (1)



at each magnet. Why must they do this?  
\_\_\_\_\_ (1)

**Q.6. The Arctic fox lives in a cold and snowy environment.**

**ARCTIC FOX**



a. Describe two of the adaptations in Arctic fox to live in cold environment.

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(2)

b. What is the difference between hibernation and migration?

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(2)

Q.7



Match the adaptations of the tree (1-4) in the picture with the reasons(A-D) for these adaptations. (4)

**ADAPTATION**

- 1. Shallow roots
- 2. Needles with waxy surface
- 3. Sloping branches
- 4. Thick bark and resin

**REASONS**

- A. Snow can slide off the branches
- B. Prevents too much water loss
- C. Keeps tree trunk warm, prevents water loss
- D. Tree grows in soil, not frozen in summer

Q.8. Mia investigates four solid blocks, A, B, C and D. She does five experiments.

In her first experiment she moves block A towards block B.



Block A



Block B

Mia repeats the experiment four more times using the blocks shown in the table.

Experiment		Result
A is moved towards B		A repels B
A is moved towards C		A attracts C
A is moved towards D		there is no attraction between A and D
B is moved towards C		B repels C
C is moved towards D		there is no attraction between C and D

(a) Three of the blocks are magnets. Write the letters of the three blocks that are magnets. Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (2)

(b) One of the blocks is made of **plastic**. Write the letter of the block that is made of plastic.

\_\_\_\_\_ (1)

(b) Describe the difference between a magnetic material and a magnet.

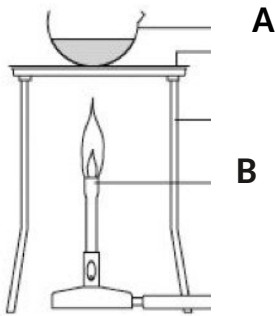
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (1)

**Q.9.** A teacher gives Carlos a solution of sugar dissolved in water. She also gives him the equipment to separate the sugar from the water.

a) Look at the Equipment.



a) Name equipments **A** and **B**.

A \_\_\_\_\_

B \_\_\_\_\_

(2)

(a) Complete the sentences to explain how Carlos separates the sugar from the water.

Carlos heats the solution of sugar dissolved in water.

The \_\_\_\_\_ remains in equipment A.

The \_\_\_\_\_ evaporates into the air.

(2)

**Q.10. The picture shows a large magnet lifting iron into the air.**



Complete the sentences.

- (a) The magnet lifts the iron because iron is a \_\_\_\_\_ material. (1)
- (b) There is a \_\_\_\_\_ pulling the iron to the magnet. (1)
- (c) A different magnet holds less iron because it is \_\_\_\_\_. (1)