Grade 6 Fun with Magnets Worksheets

A. Fill in the Blanks:

1. Artificial magnets are made in different shapes such as ……..,
…… and …… .
2. The materials which are attracted towards a magnet are called
…… .
3. Paper is not a …….. material.
4. In olden days, sailors used to find direction by suspending a piece of
…….. .
5. A magnet always has ……. poles.

B. State True or False:

1. A cylindrical magnet has only one pole. ……..
2. Artificial magnets were discovered in Greece. ……
3. Similar poles of a magnet repel each other. ……..
4. Maximum iron filings stick in the middle of a bar magnet when it is brought near them. ……..
5. Bar magnets always point towards North-South direction. …….
6. A compass can be used to find East-West direction at any place.
……
7. Rubber is a magnetic material. …….

C. Answer the following questions in short:

1. It was observed that a pencil sharpener gets attracted by both the poles of a magnet although its body is made of plastic. Name a material that might have been used to make some part of it.
2. Write any two properties of a magnet.
3. Where are poles of a bar magnet located?
4. A bar magnet has no markings to indicats its poles. How would you find out near which end is its north pole located?
5. You are given an iron strip. How will you make it into a magnet?
6. How is a compass used to find directions?
7. What is a magnet?
8. How do you define magnetism?
9. Name the device used to determine the directions?
10. You are given two identical bars which look as if they might be made of iron. One of them is a magnet. While other is a simple iron bar. How will you find out, which one is a magnet?
11. What will happen if a magnet is brought near a compass?
12. A tailor was stitching buttons on his shirt. The needle has slipped from his hand on to the floor. How will you help the tailor to find the needle?

D. Column I shows different positions in which one pole of a magnet is placed near that of the other. Column II indicates the resulting action between them for each situation. Fill in the blanks:

Column I	Column II
N-N	.....
N-.....	Attraction
S-N	.....
.....-S	Repulsion

E. A magnet was brought from different directions towards a toy boat that has been floating in water in a tub. Affect observed in each case is stated in Column I. Possible reasons for the observed affects are mentioned in Column II. Match the statements given in Column I with those in Column II:

S.No.	Column I	Column II
1.	Boat gets attracted towards the magnet	Boat is fitted with a magnet with north pole towards its head
2.	Boat is not affected by the magnet	Boat is fitted with a magnet with south pole towards its head
3.	Boat moves towards the magnet if north pole of the magnet is brought near its head	Boat has a small magnet fixed along its length
4.	Boat moves away from the magnet when north pole is brought near its head	Boat is made of magnetic material
5.	Boat floats without changing its direction.	Boat is made up non-magnetic material

F. Tick (✓) the Correct Option:

1. Which of these are non-magnetic material?

(a) Copper

(b) Nickel
(c) Iron
(d) Cobalt

2. Choose the natural magnets.
(a) Iron
(b) Alnico
(c) Magnetite
(d) Nickel

3. A magnet is used in a:
(a) bulb
(b) cell
(c) motor
(d) compass

4. The south pole of a compass nfeedle points towards the earth's:
(a) geographical north
(b) geographical south
(c) magnetic south
(d) magnetic north

5. A magnet will attract:
(a) a pencil
(b) the iron clips
(c) a piece of cloth
(d) all of these

6. The needle of a compass indicates which direction when it comes to rest?
(a) North-South
(b) East-West
(c) North-East
(d) South-West

G. Complete the table:

Name of the object	Material which the object is made of (Cloth/plastic/ aluminium/ wood/ glass/ iron/ any other	Attracted by Magnes stick/ magnet (Yes/No)
Iron ball	Iron	Yes
Scale	Plastic	No
Shoe		
Comb		
Pencil		
Pin		
Eraser		

H. Using a compass, find the direction in which windows and entrance to your house or class room open.

I. Few iron nails and screws got mixed with the wooden shavings while a carpenter was working with them. How can you help him in getting the nails and screws back from the scrab with wasting his time in searching with his hands?

A. Fill in the Blanks:

1. The process of changing of water into its vapour is called …… .
2. The process of changing water vapour into water is called …….. .
3. No rainfall for a year or more may lead to …….. in that region.
4. Excessive rains may cause …… .
5. All rivers finally …….. with the ocean.

B. State for each of the following whether it is due to evaporation or condensation:

1. Water drops appear on the outer surface of a glass containing cold water. ……..
2. Steam rising from wet clothes while they are ironed. ……
3. Fog appearing on a cold winter morning. ……..

4. Blackboard dries up after wiping it. ……
5. Steam rising from a hot girdle when water is sprinkled on it. ……

C. State True or False:

1. Water vapour is present in air only during the monsoon. …….
2. Water evaporates into air from oceans, rivers and lakes but not from the soil. …….
3. The process of water changing into its vapour, is called evaporation. ……..
4. The evaporation of water takes place only in sunlight. ……..
5. Water vapour condenses to form tiny droplets of water in the upper layers of air where it is cooler. ……..

D. Answer the following questions in short:

1. Suppose you want to dry your school uniform quickly. Would spreading it near an anghiti or heater help? If yes, how?
2. Take out a cooled bottle of water from refrigerator and keep it on a table. After sometime you notice a puddle of water around it. Why?
3. To clean their spectacles, people often breathe out on glasses to make them wet. Explain why the glasses become wet?
4. How are clouds formed?
5. When does a drought occur?
6. What is meant by water cycle?
7. Define evaporation.
8. What is rain harvesting?
9. What is the need of water conservation?
10. Imagine a day in your life when water supply through taps is not available. So, you have to fetch it yourself from a far away place. Would you use the same amount of water as on any other day?
11. You have noticed fog near the ground in writer mornings. Is this condensation of water vapour near the ground. What do you thingk?

E. Tick (✓) the Correct Option:

1. Which of the following takes place in cloud formation?
(a) Evaporation
(b) Condensation
(c) Evaporation followed by condensation
(d) Sublimation

2. Which of the following is not a form of precipitation?
(a) Hail
(b) Snow

(c) Rain
(d) River

3. The amount of water on the earth is:
(a) increasing
(b) decreasing
(c) constant
(d) uncertain

4. Which of the following is not related to drought?
(a) No rain
(b) Shortage of food and fodder
(c) Melting of mountain snow
(d) Falling of the water table

5. Which of the following is not related to floods?
(a) Damage to life and property
(b) Erosion of soil
(c) Loss of aquatic life
(d) Falling of the water table

F. Match the following:

'A'	'B'
1. Ice	a. Freezing
2. Water	b. Gaseous state of water
3. Water vapour	c. Evaporation
4. Formation of ice from water	d. Liquid state of water
5. Formation of water vapour from water	e. Solid state of water

G. Complete the following Table to estimate the amount of water used by a family in a day:

Activity	Amount of water used
Drinking	
Brushing	
Bathing	
Washing utensils	
Washing clothes	
Toilets	
Cleaning floor	
Any other	
Total water used in a day by a family	

H. Prepare a poster on ways of saving water and display it on your school notice-board.