

1. Wonders of Air

WORKSHEET 1

A. Write True or False.

1. Air is a mixture of three gases. _____
2. Plants get nitrogen from the soil. _____
3. Water from waterbodies evaporates to form snow. _____
4. Everything that has weight exerts pressure. _____
5. Burning of fossil fuels releases nitrogen into air. _____

B. Match the following.

Column A

1. Oxides of nitrogen
2. Air pressure
3. Carbon dioxide
4. Moving air
5. CNG

Column B

- (a) Photosynthesis
- (b) Wind
- (c) Air pollutants
- (d) Non-polluting fuel
- (e) Doctor's syringe

C. Tick (✓) the correct answers.

1. Which of the following causes air pollution?
(a) Solar heater ☐ (b) Solar cooker ☐
(c) Solar cell ☐ (d) Aeroplanes ☐
2. Which of the following pair is correct?
(a) Nitrogen–21% ☐ (b) Oxygen–21% ☐
(c) Carbon dioxide–0.5% ☐ (d) Water vapour–78% ☐
3. Animals get nitrogen from
(a) plants. ☐ (b) soil. ☐
(c) air. ☐ (d) water. ☐

WORKSHEET 2

A. Fill in the blanks with the help of given words.

bacteria foul air evaporates respiration

1. We can feel _____ when it moves.
2. Carbon dioxide is given out as a result of _____.
3. Nitrogen of air reaches the soil by the activity of soil _____.
4. Water from waterbodies _____ to form water vapour.
5. Rotting garbage releases gases having _____ smell.

B. Tick (✓) the correct answers.

1. Which of these is a renewable form of energy?
(a) CNG ☐ (b) Solar energy ☐
(c) Petrol ☐ (d) Diesel ☐
2. Harmful gases released by air conditioners reduce
(a) visibility. ☐
(b) air pollution. ☐
(c) hearing power of humans. ☐
(d) thickness of ozone layer of atmosphere. ☐
3. Gases exert pressure in
(a) upward direction. ☐ (b) downward direction. ☐
(c) east direction. ☐ (d) all directions. ☐
4. Which of these gases is given out during photosynthesis?
(a) Carbon dioxide ☐ (b) Sulphur dioxide ☐
(c) Nitrogen ☐ (d) Oxygen ☐

C. Answer these questions.

1. What keeps a balance in the amount of oxygen and carbon dioxide in atmosphere?
2. Write an activity to show that air exerts pressure.
3. Where does smoke come from into the air?



2. Matter

WORKSHEET 1

A. Name the following.

1. Two substances found in solid state _____
2. Two substances found in liquid state _____
3. Two substances found in gaseous state _____
4. Two compounds _____

B. Fill in the blanks with the help of given words.

compound matter physical hydrogen elements

1. _____ is made up of atoms and molecules.
2. On Earth, 115 different _____ are found.
3. Water is formed of _____ and oxygen.
4. Elements of a _____ cannot be separated easily.
5. Formation of dew drops is a _____ change.

C. Find and circle atleast five terms related to matter in this wordsearch.

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

WORKSHEET 2

A. Write True or False.

1. When boiled, water changes into steam which is a gas. _____
2. Liquids have a definite shape. _____
3. Scientists use symbols to represent elements. _____
4. Molecules in gases have strong force of attraction. _____
5. When substances burn, they combine with oxygen. _____

B. Match the following.

Column A

1. Water
2. Carbon
3. Iron nails in tea grains
4. Melting of ice
5. Burning of paper

Column B

- (a) Mixture
- (b) Physical change
- (c) Compound
- (d) Chemical change
- (e) Element

C. Answer these questions.

1. What is a physical change?
2. What is a chemical change?
3. What is a material made up of?
4. What is matter?



3. Rocks and Minerals

WORKSHEET 1

A. Name the following.

1. The third rock from the Sun
2. The study of the Earth
3. Another name of the fire rocks
4. Rock that looks like black glass
5. Rock that is used for making roofs

B. Match the following.

Column A

1. Scoria rock
2. Pumice rock
3. Limestone
4. Gypsum
5. Gneiss

Column B

- (a) Sponge-like appearance
- (b) Mica mineral
- (c) Plaster of Paris
- (d) Basalt rock
- (e) Calcite mineral

C. Tick (✓) the correct answers.

1. Which of these is not obtained from petroleum?

(a) Kerosene

☐

(b) Diesel

☐

(c) Natural gas

☐

(d) Petrol

☐

2. Coal is a type of

(a) sedimentary rocks.

☐

(b) igneous rocks.

☐

(c) metamorphic rocks.

☐

(d) crude oil.

☐

3. Chalk used for writing on blackboards is made from

(a) marble rock.

☐

(b) limestone rock.

☐

(c) scoria rock.

☐

(d) obsidian rock.

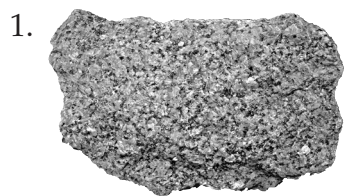
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WORKSHEET 2

A. Write True or False.

1. Igneous rocks are formed by the cooling of lava. _____
2. Granite rock is used to make soaps and tooth powder. _____
3. Sedimentary rocks are found in layers. _____
4. Quartzite is formed by the metamorphosis of sandstone. _____
5. The Red Fort in Delhi is made up of red marble. _____

B. Identify the following rocks and write their names.

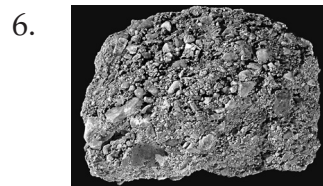












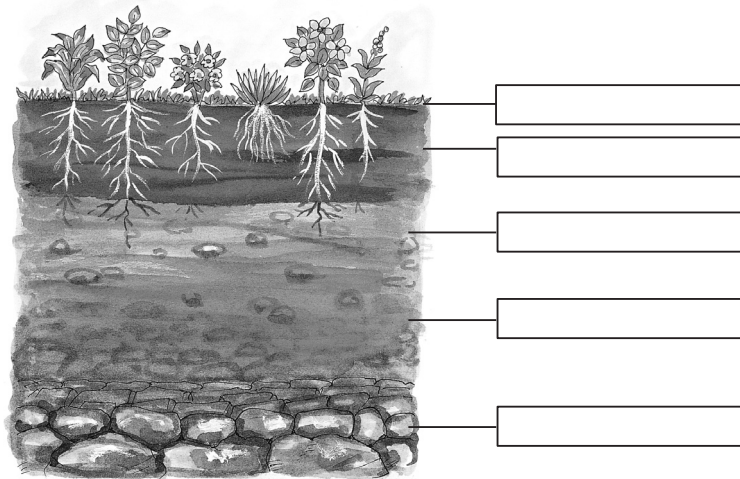
C. Answer these questions.

1. What are different rocks that make the Earth's crust?
2. Why do pumice rocks float on water?
3. Which rocks are used to make casts and moulds?
4. What is CNG used for?

4. Soil Erosion and Conservation

WORKSHEET 1

A. Label the following figure.



B. Write True or False.

1. Soil contains air and water in it. _____
2. Soil is formed by the process of deforestation. _____
3. Soil pollution ultimately makes the land barren. _____
4. Terrace farming reduces soil pollution. _____
5. The roots of plants hold the soil particles together. _____

C. Tick (✓) the correct answers.

1. Soil consists of
(a) fine rock particles. ☐ (b) dead remains of plants. ☐
(c) dead remains of animals. ☐ (d) all of these ☐
2. Bedrock is the
(a) uppermost layer of soil. ☐
(b) lowermost layer of soil. ☐
(c) middle layer of soil. ☐
(d) light-coloured layer rich in humus. ☐
3. Soil can be conserved by
(a) terrace farming. ☐ (b) afforestation. ☐
(c) growing grass. ☐ (d) all of these ☐

WORKSHEET 2

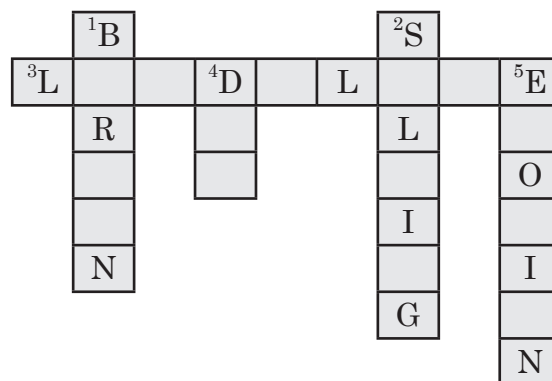
A. Fill in the blanks with the help of given words.

fibrous polluted plants barren humus

1. We all depend on _____ for our basic needs.
2. _____ is formed by the breakdown of dead and decaying parts of plants and animals.
3. Overgrazing by animals in a particular area makes the land dry and _____.
4. Grass has spreading _____ roots.
5. _____ land becomes less fertile.

B. Complete the word ladder with the help of clues given below.

1. Soil which has lost its fertility
2. Settling down of soil at the bottom of a river
3. Downhill flow of water carrying mud and rocks
4. A wall made across a river to check the flow of water
5. Loss of top layer of soil due to wind and water



C. Answer these questions.

1. Why is soil important for us?
2. How much time does it take to form 1 centimetre of topsoil?
3. What is deforestation?
4. What is terrace farming?



5. Force and Simple Machines

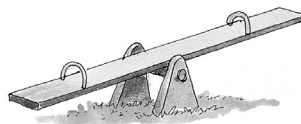
WORKSHEET 1

A. Write the class of lever below each picture.

1.



2.



3.



B. Fill in the blanks with the help of given words.

simple force split complex float

1. A _____ is applied by pushing or pulling an object.
2. The buoyant force makes things _____ on water.
3. Mixer-grinder is a _____ machine.
4. A pulley is a _____ machine.
5. A wedge is used to _____ or cut an object.

C. Tick (✓) the correct answers.

1. A force can
 - (a) move an object. ☐
 - (b) stop a moving object. ☐
 - (c) change the shape of an object. ☐
 - (d) do all these ☐
2. A force that develops due to deformity in shape is called
 - (a) buoyant force. ☐
 - (b) elastic force. ☐
 - (c) muscular force. ☐
 - (d) gravity. ☐
3. Which of these is not a simple machine?
 - (a) Knife ☐
 - (b) Pulley ☐
 - (c) Scissors ☐
 - (d) Washing machine ☐

WORKSHEET 2

A. Write the type of force being applied in these pictures.

1.



2.



3.



4.



5.



6.



B. Write True or False.

1. Gravity helps us to stay on the ground.
2. We use many machines in our daily life.
3. The force applied on the lever is called fulcrum.
4. An inclined plane is a sloping surface.
5. Screw jack is used to lift heavy things like trucks.

C. Find and circle the names of eight simple machines in the given wordsearch.

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

6. The Universe

WORKSHEET 1

A. Name the following.

1. Large circular hollows on the surface of the Moon _____
2. Planet called the Red Planet _____
3. Planet of solar system having life on it _____
4. The smallest planet of the solar system _____
5. Planet having the Great Dark Spot _____

B. Match the following.

Column A

1. Solar eclipse
2. Lunar eclipse
3. Sputnik-1
4. Kalpana-1
5. Cartosat-1

Column B

- (a) First artificial satellite
- (b) Weather satellite
- (c) Moon between the Sun and the Earth
- (d) Spy satellite
- (e) Earth between the Sun and the Moon

C. Answer these questions.

1. Who are astronomers?
2. How far is the Moon from the Earth?
3. What is the special feature of Venus?
4. How old is the Sun?
5. How many moons does Jupiter have?



WORKSHEET 2

A. Write True or False.

1. Astronomers use spectroscope to look at heavenly bodies. _____
2. The Moon shines by its own light. _____
3. When the Moon is not visible at all, it is called New Moon. _____
4. The Sun is the heaviest and the largest member of our solar system. _____
5. Uranus is a solid rocky planet. _____

B. Fill in the blanks with the help of given words.

mineral shape corona relay gravitational

1. The bright outer part of the Sun's atmosphere called _____ is seen during complete solar eclipse.
2. The Earth and the Moon attract each other by _____ pull.
3. Communication satellites serve as _____ stations.
4. Earth observing satellites help to locate _____ deposits on the Earth.
5. The _____ of the Moon keeps on changing every day.

C. Answer these questions.

1. Who are astronomers?
2. How far is the Moon from the Earth?
3. What is the temperature range on the Moon?
4. How does lunar eclipse occur?
5. What is an artificial satellite?

7. Natural Disasters

WORKSHEET 1

A. Name the following.

1. The instrument that records seismic waves _____
2. The scale on which earthquakes are measured _____
3. The tunnel of a volcano _____
4. High waves caused in sea due to undersea earthquake _____
5. A condition caused due to lack of rain for a long period _____

B. Match the following.

Column A

1. Rock plates
2. Seismogram
3. Mount Etna
4. Flood
5. Afforestation

Column B

- (a) Waterlogging
- (b) Growing more trees
- (c) Earth's crust
- (d) Active volcano
- (e) Zigzag pattern obtained on a paper

C. Answer these questions.

1. What is a natural disaster?
2. How is an earthquake caused?
3. Who are seismologists?
4. What is an extinct volcano?

WORKSHEET 2

A. Write True or False.

1. A volcano can erupt anytime. _____
2. All volcanoes are found under the sea. _____
3. Tsunami waves cause destruction on the seashore. _____
4. Growing population is the main factor responsible for floods. _____
5. Trees give out water vapour and help in bringing rain. _____

B. Fill in the blanks with the help of given words.

seismology dormant floods molten seismic

1. The layers of the Earth under the plates are hot and in _____ state.
2. The study of earthquakes is called _____.
3. The waves generated during an earthquake are called _____ waves.
4. Volcanoes that have not erupted in recent years but may erupt anytime are called _____ volcanoes.
5. _____ can be prevented by making dams and embankments.

C. Find and circle at least six terms related to the chapter in this wordsearch.

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