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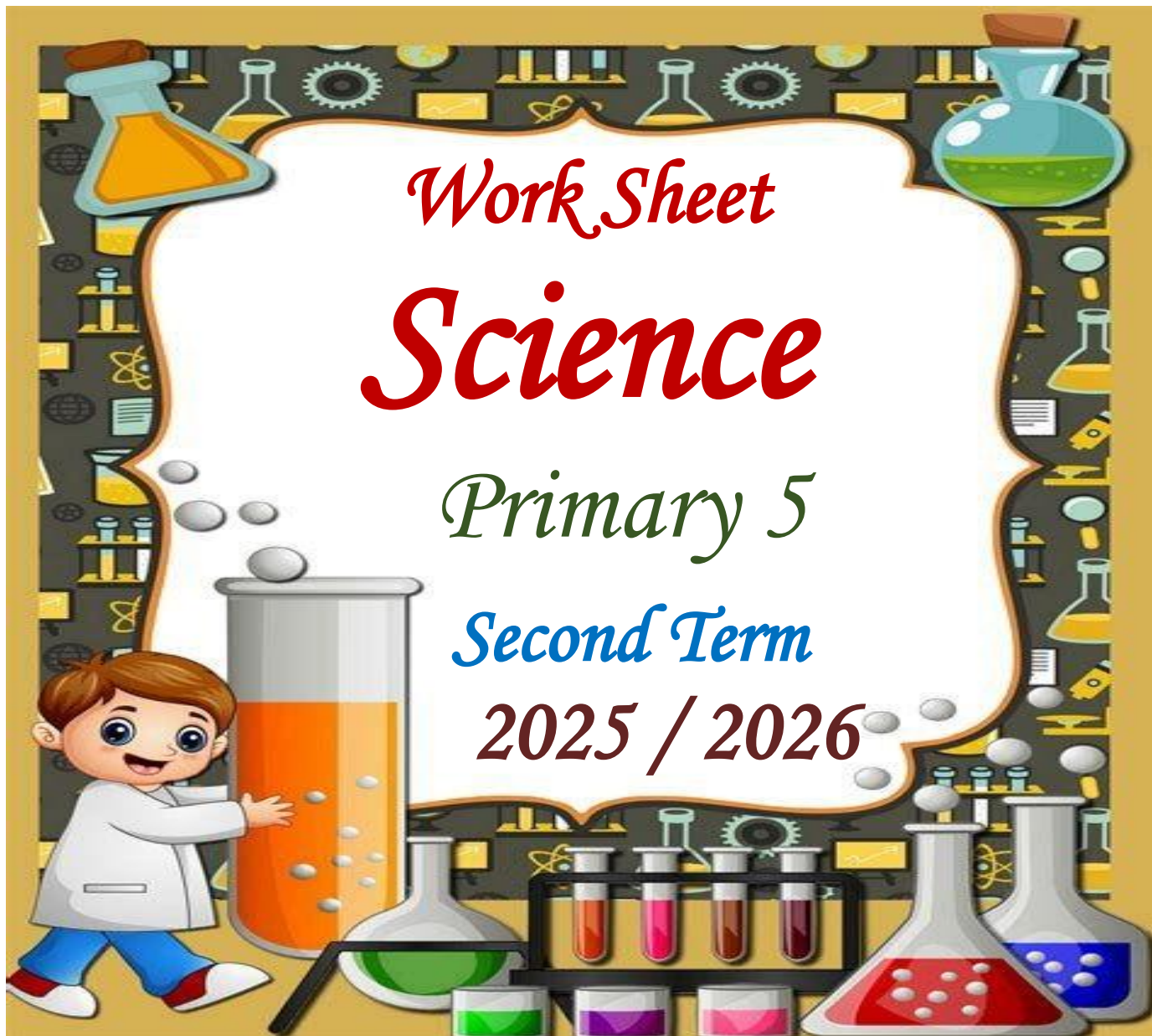
Work Sheet

Science

Primary 5

Second Term

2025 / 2026



Name:

Class:

Exercises on Concept (3.1)

Hydrosphere and Biosphere interactions

➤ Write the scientific term:

1. The process of breaking down of rocks into smaller particles due to the effect of rain, water or temperature. (.....)
2. The process in which the small particles of rocks are transported From a place to another. (.....)

➤ Complete the following:

1. The Earth's system that includes all living organisms is called
2. Water is responsible for process and..... process of rocks
3. Water bodies on Earth can change from liquid state to.....state by freezing, while they can change into.....state by evaporation.

➤ Give reasons for:

1. Water is important for all plants on Earth.
.....
2. Water can affect non-living things like rocks.
.....
3. Our planet looks like a blue marble from the space.
.....

➤ Choose the correct answer

1. All the following are components of the atmosphere, except.....
a. oxygen gas. b. nitrogen gas. c. molten rock d. water vapour.
2. Rocks are broken down into smaller particles during..... process.
a. photosynthesis b. weathering c. erosion d. respiration
3. Which of the following is a part of the hydrosphere?
a. Water. b. Air. c. Rocks. d. Plants.
4. Which of the following is a part of biosphere?
a. ice. b. clouds c .Water d. Animals.

Lesson 2&3

➤ Give reasons for:

1. Importance of atmosphere for plants in making their food.
.....
2. Water that forms the hydrosphere is one of the renewable resources on earth
.....
- 3- Hiding of worms inside the soil is an example of an interaction between two Earth's sphere
.....

➤ Choose the correct answer:

1. Mountains and valleys are parts of
a. geosphere b. atmosphere c. biosphere d. hydrosphere
2. Nitrogen and oxygen are gases that make most of the.....
a. biosphere b. geosphere c. hydrosphere d. atmosphere.
3. 96.5% of Earth's water is.....
a. salt water b. sugar water c. fresh water d. frozen water.
4. Formation of lakes is an example of an interaction betweenand.....
a. biosphere-hydrosphere c. atmosphere -biosphere
b. hydrosphere-geosphere. d. geosphere- atmosphere
5. Roots fix plants in the soil, this is an interaction between and
a biosphere -atmosphere. b. biosphere - geosphere.
c. hydrosphere - geosphere. d. hydrosphere - atmosphere.
6. All the following water bodies contain salt water, except
a. gulf. b. seas. c .oceans. d. rivers.
7. Which of the following is found between porous of rocks below Earth's surface?
a. ice b. groundwater c. oceans. d. water vapor.
8. Groundwater present under earth's surface in rock and soil porous. This is an interaction betweenand.....
a. geosphere – atmosphere b. biosphere - atmosphere
c. hydrosphere - geosphere d. hydrosphere – biosphere

➤ **Write the scientific term:**

- 1- the system of Earth which contains all different landforms (.....)
- 2- The Earth's system which is made up of water. (.....)
- 3- the frozen water part of the hydrosphere (.....)
- 4- The Earth's system which consists of a mixture of gases surrounding Earth (.....)
- 5- the system that includes humans, animals and plants on earth (.....)
- 6- a large area of the world that has similar soil, climate, plants and animals (.....)
- 7- a cycle shows the continuous movement of water from the earth to the atmosphere then to the earth again (.....)

➤ **What happen if**

- 1- plants can't get carbon dioxide gas from air.

.....

➤ **Complete the following:**

- 1- A rat that digs a barrow in the soil is an example of the interaction between and geosphere.
- 2- Irrigation of plants is an example of the interaction between two earth's systems which are and
- 3- The amount of fresh water on earth is than the amount of salt water.
- 4- Most lakes have water, while some other lakes have water
- 5- The breaking down of rocks by the effect of running water is an example of interaction between two earth's system which areand

Lesson 4

➤ Put (✓) or (x)

- 1- gases which surround the earth represents the atmosphere ()
- 2- there are no living organisms live in the hydrosphere ()
- 3- all of the water on earth represents the hydrosphere ()
- 4- some ponds and lakes may dry up in winter months ()
- 5- rivers and streams are freshwater moving bodies ()
- 6- living organisms are part of geosphere ()

➤ Complete the following :

- 1- We can classify the aquatic ecosystem according to their amounts of salt into ecosystem and
- 2- Abyssal zone in the ocean is a dark area as can't reach it.
- 3- Some ponds and lakes dry up in the months.
- 4- Intertidal zone is the area along the ocean between the tide and tide.

➤ Write the scientific term :

- 1- The largest saltwater ecosystem that cover large parts of earth's surface (.....)
- 2- Areas of the oceans of the ocean which contains coral reefs and intertidal zones (.....)

➤ Give reason for:

- 1- no green plants can survive in the abyssal zones of oceans
.....
- 2- some ponds and lakes may dry up during some months
.....

Lesson 5

➤ Correct the underlined words:

- 1- Lake Nasser is an example of saltwater lakes in Egypt.
- 2- When rain falls on a soil, this represented an interaction between biosphere and geosphere.
- 3- Fresh water forms about 96.5% of water on earth.

➤ What happen if?

The state of water when it is subjected to extreme cold weather

.....

➤ Choose the correct answer:

1. Rivers and streams contain water, while ponds contain water
 - a. salt – fresh
 - b. fresh – salt
 - c. running – still
 - d. still- running
2. water lilies can live in.....
 - a. ponds
 - b. seas
 - c. oceans
 - d. desert
3. Water evaporation and its condensing on planet Earth show an interaction between..... and
 - a. hydrosphere – atmosphere
 - b. hydrosphere-biosphere
 - c. biosphere-geosphere
 - d. biosphere-atmosphere
4. among animals that can be found in ponds are and
 - a. lions – salamanders
 - b. dogs – frogs
 - c. frogs – salamanders
 - d. foxes – bears

➤ Complete the following:

- 1- According to water movement, ponds have water compared to streams that have water.
- 2- Water runs across the land is an example of an interaction between hydrosphere and

Exercises on Concept (3.2)

Lesson 1

➤ Write the scientific term:

1. It is the liquid that makes up about two-thirds of the human body.
[.....]
2. A type of water which is suitable for drinking.
[.....]

➤ Give reasons for:

1. You should turn off water tap during brushing your teeth.
.....

➤ Complete the following:

1. rivers contain water, while oceans contains water
2. when a river meets a sea, an is formed.
3. In High Dam, water is used to generate.....
4. Glaciers are sources of fresh water which have a..... state of water.

➤ Choose the correct answer:

1. The basic liquid matter which is needed by humans, animals and plants to survive is
a. milk. b. water. c. oil. d. alcohol.
2. Water can control the.....of living organisms bodies.
a. length b. height c. temperature d. volume
3. are formed when water collect in low-lying areas
a. seas b. oceans c. Lakes d. Rivers

➤ Put (✓) in front of the source of fresh water or salt water:

Source of water	Fresh water	Salt water
1. Nile River		
2. Seas		
3. Water streams		
4. Lake Assal		
5. Aquifers		
6. Oceans		

Lesson 2

➤ Complete the following:

1. The extinction of some species that live in fresh water due to the poor of fresh water.
2. The type of water that is found in rivers, most of lakes and streams is awater
3. When the rate of rainfall decreases, the level of water in rivers will..... causing

➤ Put (✓) or (x):

1. High quality of fresh water leads to the death of marine organisms live in it ()
- 2- Scarcity and conservation of fresh water are two main risks that threaten fresh water on earth. ()
- 3- We must conserve fresh water, because it is limited on earth. ()

➤ Write the scientific term:

1. A phenomenon that happens due to the increase of the level of water in rivers and streams (.....)
2. It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body (.....)
3. a phenomenon that happens due to the decrease of the level of water in rivers and streams (.....)

➤ Give reasons for:-

1. Scientists tend to preserve freshwater sources on earth.
.....
2. The quality of fresh water affects the life of living organisms live in it.
.....

➤ What happens if...?

1. The quality of fresh water becomes poor.
.....
2. The rate of rainfall increases on river.
.....

Lesson 3

➤ Choose the correct answer:

1. Tributary usually ends by the flowing of its water into bigger
a. ocean b. sea c. river d. lake
2. All the following reasons cause water pollution in a river, except
a. litter of nearby factory
b. waste of a nearby factory
c. chemical fertilizer of a nearby farm
d. building a dam across the river
3. Which of the following can pollute the water of a tributary by the effect of wind blowing
a. liquid waste materials of factories b. water that flows through dams
c. light litter of trash dumps d. sediments in the water of rivers

➤ Write the scientific term:

1. A building established across a river which can hold water behind it.
[.....]
2. They are small water bodies such as small creeks or streams that flow into bigger rivers.
[.....]

➤ What happens if...:

A trash dump is established near a tributary that is connected with a river.

.....

➤ Put (✓) or (x):

- 1- Dam can hold the water behind it which causes a change in the amount of water in a water body. ()
- 2- Upstream is the place where a river starts ()
- 3-The water of tributaries flow directly into seas and oceans. ()

➤ Give reason for:

- 1- Farms near tributaries may causes water pollution

.....

Lesson 4

➤ Choose from column (B) what suits it in column (A):

(A)	(B)
1. Cotton (.....)	A. can be used in making plastic.
2. Oil products (.....)	B. can be used in making paper.
3. Trees (.....)	C. can be used in making clothes.
	D. can be used in making cans.

➤ Write the scientific term:

1. The action of control reaching of humans to the natural resources or using them. [.....]
2. It means using resources in a way that does not negatively affect the future supply of these resources. [.....]

➤ Give reasons for:

- 1- We should turn of water during washing dishes.
.....
- 2- Countries prevent using or developing natural resources in some protected areas of land.
.....

➤ Complete the following

- (decrease –plant – rains– groundwater– oil products– animals – sustainability– trees)
1. Groundwater is replaced by.....
 2. The run out ofcauses wells to become dry.
 3. Plastic is made from..... while paper and wood are made from
 4. Clothes can be made from.....
 5. To conserve water, we cantime of washing our hands.

➤ Put (✓) or (x):

- 1- Placing cows in many small grass areas is considered as unsustainable situation. ()
- 2- You must decrease the time of taking your shower to conserve water. ()
- 3- Soil pollution causes the death of plants and animals ()
- 4- Preservation and sustainability are ways to conserve natural resources ()

Lesson 5

➤ Complete the following sentences using the words below:

(Harmful - charcoal - mud - filter - sand)

1. Human canwater to recycle wastewater to be used again.
2. Cotton, and can be used in making a simple water filter.
3. Water filters are used to remove..... materials from polluted water.
4. Clear water can be polluted if it is mixed with.....

➤ Put (√) or (x):

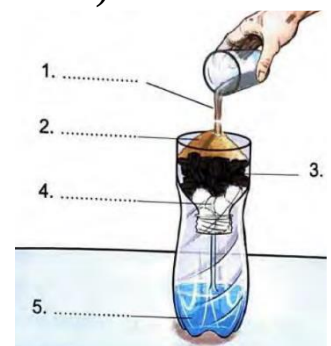
1. Recycling of wastewater means removing waste materials from it. ()
2. Cotton can be used as a filter to remove waste from water. ()
3. Water is considered as a non-renewable natural resource. ()
4. Adding some of mud to a clear water can pollute it. ()
5. Dams can be used to filter polluted water to be used again. ()

➤ Look at the following figure, then answer the questions below:

A. Label the figure using the following words:

(Charcoal-Wastewater - Cotton - Filtered water - Sand).

- B. The tool above shows a simple....., and it is used to remove materials from wastewater.



➤ Give reason for :

Scientists recycle fresh wastewater to get filtered water again

.....

Exercises on Concept (4.1)

Lesson 1

➤ **Choose the correct answer:**

1. Gravity keeps the moon in orbit around.....

- a. Sun. b. Earth. c. itself. d. another moon.

2. If there is no Earth gravity, the Moon would.....

- a. revolves faster around Earth b. still orbit Earth
c. attracts to Earth d. float off into space

3. all of the following are properties of Earth gravity except

- a. it pushes objects upward b. it affects the moon
c. it pulls objects downward d. it is the type of attraction force

➤ **Write the scientific term of each of the following:**

1. A force that pull objects down toward the Earth center. (.....)
2. A phenomenon takes place in oceans and seas due to gravity of moon.
(.....)

➤ **Complete the following sentences:**

1. Objects move down from high place toward the ground due to the effect of.....
2. Gravity pulls objects toward the of Earth

➤ **Give reasons for:**

The force of gravity has an important role in the solar system.

.....

Lesson 2

➤ Choose the correct answer

1. Gravitational force of Earth is affected by.....

- a. mass and time.
- b. mass and distance.
- c. mass only.
- d. distance only.

2. Earth attracts objects towards.....

- a. its center.
- b. the sky.
- c. the mon.
- d. the Sun.

➤ Complete the following sentences:

1. The object at rest needs to move
2. If the mass of the moon increases than its real mass, its gravitational attraction will.....
3. The force that is needed to move a small bike is..... than that needed to move a truck.
4. A magnet can attract some objects by a force called.....

➤ Give reasons for:

1. Paper clips are pulled toward the magnet.
.....
2. Gravity of Earth is greater than gravity of the moon.
.....

➤ What happens if ...?

- 1- The distance between the moon and Earth increases to twice.
.....
- 2- The mass of the moon decreases to the half
.....

Lesson 3

► Put (✓) or (X):

1. All objects on Earth's surface is affected by magnetism force. ()
2. Gravity of Earth push objects towards its center. ()
3. The direction and mass of an object are changed due to gravity. ()
4. All objects are pulled toward the ground due to the effect of gravity. ()
5. Any object on Earth's surface is affected by repulsion force of gravity. ()

► Complete the following sentences :

1. The direction of Earth's gravity is always toward of Earth.
2. The force of gravity is always.....force, and it changes the.....of movement.
3. Any object has..... depending on its mass
4. The astronauts float in space due to the absence of

► Give a reason for the following:

You always land on the ground when you jump up.

.....

► What happens if ...?

1. The gravity of Earth is a repulsion force not an attraction force.

.....

2. There is no gravity on Earth.

.....

Lesson 4

➤ Choose the correct answer:

1. Friction force..... the movement of objects.
a. slows down b. increases c. speeds up d. doesn't affect
2. Magnetism is a force that attracts objects made of the following materials, except.....
a. iron. b. nickel. c. wood. d. cobalt.
3. The force that opposes the movement of objects as they pass through air is known as.....
a. magnetism. b. gravity. c. electric. d. Air resistance
- 4.....is considered as a type of friction force.
a. Air resistance b. Magnetism c. Gravity d. Electric force.
5. Which the following objects has the least attraction force?.....
a. The moon. b. The Earth. c. The Sun. d. The magnet.

➤ Complete the following sentences:

1. A magnet has force that attracts and pulls metal objects toward it.
2. A parachute in air is affected by..... that acts against the force of Earth.
3. The attraction force between the Sun and Earth is.....than that between Earth and the moon because the Sun hasmass.

➤ Give reasons for:

1. Skydiver opens his parachute during landing.
.....
2. When you press the bicycle brake, its speed will stop moving after few seconds
.....
3. Some iron nails are attracted to a magnet.
.....

➤ What happens to?

1. Planets if the gravity of the Sun disappears.
.....

Lesson 5

➤ Choose the correct answer:

1. The force of..... keeps the planets on their paths around the Sun.
a. air resistance b. friction c. gravity d. electricity
2. Gravity is..... force that holds all objects in their places.
a. visible pulling b. visible pushing c. invisible pulling d. invisible
3. The planets revolve around the Sun in fixed..... orbits.
a. oval b. irregular c. rectangular d. triangular
4. The speed of Earth's revolution around the Sun is nearly...km per hour.
a. more than 100,000 b. more than 200,000
c. less than 100,000 d. less than 50,000
- 5.....is (are) the center of the solar system.
a. The Earth b. The Sun
c. The moon and Earth d. The Sun and Earth

➤ Put (✓) or (X) :

1. The Sun revolves around Earth. ()
2. The planets revolve around the Sun by the effect of gravitational pushing force. ()
3. Gravity is an attraction force that can be seen easily. ()

➤ Complete the following sentences:

1. The Sun locates at the center of.....
2. In the solar system, all planets revolve in fixed paths called.....
3. The force that keeps all planets around the Sun is called.....
4. The scientist Nicolaus Copernicus stated that the revolves around the sun.

➤ Give a reason for the following:

Planets revolve around the Sun in fixed orbits.

.....

Concept 4 .2

Lesson 1

➤ Write the scientific term of each of the following

1. The phenomenon that occurs due to the rotation of Earth on its axis.
(.....)
2. An imaginary line that passes through the two poles of the Earth
(.....)
3. The spinning of Earth on its axis.
(.....)
4. The orbiting of Earth around the Sun.
(.....)
5. The phenomenon that occurs when half of the Earth doesn't receive the sunlight
(.....)

➤ Put (✓) or (x):

1. At the beginning of the day, the sun appears in west direction ()
2. If you change your direction on Earth's surface, the Sun will rise from west.
()
3. The spinning of Earth on its axis is called revolution. ()
4. Most of stars don't appear moving in the sky. ()
5. The movement of shadows is due to the movement of Earth around the Sun.
()
6. All parts of Earth receive sunlight at the same time. ()

➤ Give reasons for:

1. Occurrence of day and night
.....
2. Half of Earth appears dark at night
.....
3. The sun appears as it moves across the sky
.....

➤ What happen if:

1. Earth doesn't rotate on its axis
.....
2. Earth completes its spinning on its axis in 12 hours only
.....

Lesson 2

➤ Give reason: -

1. Occurrence of seasons.

.....

➤ Put (✓) or (x):

- 1- The length of day and night are always equal during the whole year ()
- 2- The repetition of series of events in the same order is called cycle. ()
- 3- The solar system includes the sun and earth only ()

➤ Write the scientific term: -

1. The fastest planet during its rotation on its axis. (.....)
2. The time taken by Earth to complete one rotation on its axis.
(.....)
- 3- A phenomenon occurs due to Earth's revolution around the sun.
- 4- The Sun and eight planets revolving around it. (.....)

➤ Complete the following:

- 1- Cycle of happens due to Earth's rotation on its
- 2- A series of events that is repeated in the same order is called
- 3- Solar system includes at its center and eight around it.
- 4- Earth revolves around throughout the year.

Lesson 3

➤ Choose the correct answer:

- 1- When you look at the sky, you can see all the following celestial objects with naked eye, except.....
a. some stars. b. the Sun. c. the Earth. d. the moon
- 2- Reaction between gases of the Sun gives off.....
a. light and hydrogen. b. heat and helium.
c. heat and light. d. comet and meteor.
- 3- All the following appear like small light dots in the sky at night, except.....
a. a star. b. a meteor. c. a satellite. d. the moon.
- 4- We cannot send astronauts to study stars, because they are.....
a. so cold. b. faraway. c. too small. d. too large.

➤ Write the scientific term of each of the following:

- 1- It is a group of stars, planets and gases held together by gravity.
- 2- (.....)
- 3- It is a wide space that contains celestial bodies as stars, galaxies, comets, meteors and satellites.
(.....)
- 4- It is a protective layer around the Earth that allows some light waves to pass and blocks others.
(.....)

➤ Give reasons for :

- 1- The Sun looks much larger to us than other stars.

.....
.....

- 2- Atmosphere limits the using of some telescopes to see distant celestial bodies

.....
.....

- 3- Stars appear bright in the sky at night.

.....
.....

Lesson 4

➤ Complete the following sentences:

1. A constellation consists of a group of..... that form a pattern.
2. Ancient Greeks gave constellation.....its name relative to a mythical.....
3. Stars seem to move across the night sky due to the.....of Earth its axis.
4. Planets andcan't make their own light
5. Stars seem bright because they are made up of.....
6. Location of.....in the sky during the year, helps up to determine of Earth.

➤ Give reason for :-

1. Stars seem to move in the sky.
.....
1. The moon appears bright in the sky at night.
.....
2. If we are travelling in desert, stars may help us to determine our correct way across the desert.
.....

➤ Put (✓) or (x):

1. All celestial bodies make their own light. ()
2. Constellations have similar shapes in the sky. ()
3. Constellation Orion is called by this name by ancient Greeks relative to a mythical hunter. ()
4. Stars seem to move in the sky due to Earth's revolution around the Sun. ()
5. All constellations can be seen in the sky every day along the year. ()

➤ What happen to:

- 1- Stars are not made up of hot gases
.....
- 2- Sunlight falls on the moon's surface
.....

Lesson 5

➤ Choose the correct answer: -

1. The moon takes one lunarto complete one cycle around the Earth.
a. year b. week c. month d. day
2. When the Earth is between the moon and the Sun, it appears in the phase.
a. half-moon b. full moon c. new moon d. crescent
3.is the moon phase that we can see more than half of the moon face is illuminated
a. First crescent b. second crescent c. Gibbous d. New moon
4.is a celestial body that revolves around Earth and reflects the sunlight
a. Planet b. The Sun c. The moon d. Constellation

➤ Correct the underlined word:

1. The Sun is a planet that can gives out light. (.....)
2. The moon seems bright as it absorbs sunlight. (.....)
3. Earth is the center of the solar system. (.....)
4. Both Earth and the moon complete one cycle around the Sun every 24 hours. (.....)

➤ Complete the following sentences:

1. The moon reflects the light of.....
2. All moon phases are repeated every
3. The moon orbits and both of them orbit the sun.
4. At phase, the moon appears completely shining in the sky at night.

➤ Cross out the odd word:

- 1- Earth – Jupiter – the sun – the moon (.....)
- 2- Crescent – full moon – Earth – gibbous (.....)

➤ Write the scientific term:

- 1- Dark objects revolve around the sun in fixed orbits (.....)
- 2- The moon phase at which moon seems completely bright (.....)
- 3- The moon phase at which one edge only appears bright (.....)
- 4- The moon phase at which moon seems completely dark (.....)

Lesson 6

➤ Put (✓) or (x):

1. Planetarium directors are responsible for making computer programs. ()
2. The ceiling of-the planetarium has a dome shape. ()
3. The scientists who work in planetarium study the behavior of stars and moons. ()

➤ Write the scientific term:

1. A special building with dome ceiling and is used to see images of celestial bodies. (.....)
2. Scientists that manage the planetarium buildings. (.....)

➤ Give a reason for the following:

Planetarium is an important building for space study.

.....

➤ Complete the following sentences:

- 1- Planetarium are responsible for making amazing realistic show to bring the outer space to earth.
- 2- In planetarium, we use to display images on the dome ceiling.
- 3- A special building where we can see images of celestial bodies like stars, and is called