



Al Asalah School

Review T1: 2025-26

Book 2: Unit 4

Pages -5,12,13,20,21,23,31,40,60,65,82

Grade: 5 \_\_\_\_\_

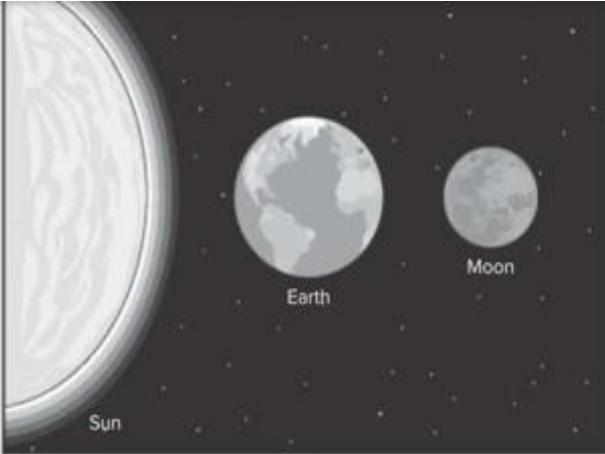
Prepared by Rounaque Saba

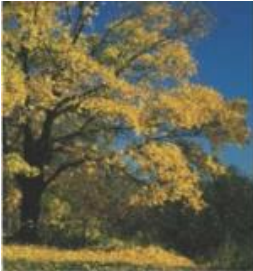
Subject: Science

| Q. no | MCQ marks                                                                                                                                                                                                                                                                                                                                                                                                                 | page |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1     | <b>Which of the following is true statement</b> <ul style="list-style-type: none"> <li>a. Earth's gravity only pulls things closer to its surface</li> <li>b. Earth's gravity only pulls things closer to its surface and atmosphere.</li> <li>c. Earth's gravity only pulls things closer to its surface including something in space</li> <li>d. Earth's gravity only pulls everything from the solar system</li> </ul> | 5    |
| 2     | <b>Gravity pulls object towards</b> <ul style="list-style-type: none"> <li>a. Poles of the earth</li> <li>b. Centre of the earth</li> <li>c. Equator of the earth</li> <li>d. Axis of the earth</li> </ul>                                                                                                                                                                                                                | 12   |
| 3     | <b>When the mass of any object increases</b> <ul style="list-style-type: none"> <li>a. The Strength of gravity will decrease</li> <li>b. The Strength of gravity will be the same</li> <li>c. The Strength of gravity will decrease and then increase</li> <li>d. The Strength of gravity will increase</li> </ul>                                                                                                        | 12   |
| 4     | <b>The amount of gravity of an object depends on its</b> <ul style="list-style-type: none"> <li>a. Mass</li> <li>b. Shape</li> <li>c. Speed</li> </ul>                                                                                                                                                                                                                                                                    | 12   |

|   |                                                                                                                                                                                                                                                                                                                                                                                            |    |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 5 | <p><b>What effect does the moon's gravity have on the Earth?</b></p> <ul style="list-style-type: none"> <li>a. It makes craters.</li> <li>b. It pulls some objects toward the moon.</li> <li>c. Causes ocean tides.</li> <li>d. It has no effect because it's too small</li> </ul>                                                                                                         | 13 |
| 6 | <p><b>A person would weigh less on the Moon than on the Earth because</b></p> <ul style="list-style-type: none"> <li>a. Moon has more mass, and therefore more gravity</li> <li>b. Moon has less mass, and therefore more gravity</li> <li>c. Moon has more mass, and therefore less gravity</li> <li>d. Moon has less mass and therefore less gravity</li> </ul>                          | 13 |
| 7 | <p><b>MATH Connection</b> The Moon's gravity is <math>\frac{1}{6}</math> that of Earth. If an astronaut weighs <u>79 kilograms (175 pounds)</u> and <u>his space suit weighs 50 kilograms (110 pounds)</u>, how much would the astronaut and his suit weigh on the Moon?</p> <ul style="list-style-type: none"> <li>a. 21.5 kg</li> <li>b. 30 kg</li> <li>c. 20kg</li> <li>d. 0</li> </ul> | 13 |
| 8 | <p><b>Meteor is a rock object</b></p> <ul style="list-style-type: none"> <li>a. reach to the earth's surface</li> <li>b. burning in the atmosphere of earth</li> <li>c. in the space</li> <li>d. reach to the sun's surface</li> </ul>                                                                | 13 |

|    |                                                                                                                                                                                                                                                                                 |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 9  | <p><b>When the mass of any object increases</b></p> <p>e. The Strength of gravity will decrease</p> <p>f. The Strength of gravity will be the same</p> <p>g. The Strength of gravity will decrease and then increase</p> <p><b>h. The Strength of gravity will increase</b></p> | 13 |
| 10 | <p><b>Which of the object has strongest gravitational pull</b></p> <p>a. Object A with 100kg</p> <p><b>b. Object B with 180 kg</b></p> <p>c. Object C with 50kg</p> <p>d. Object D 25 kg</p>                                                                                    | 13 |
| 11 | <p><b>Space rocks that hit the earth surface is called _____</b></p> <p>a. Meteor</p> <p><b>b. Meteorite</b></p> <p>c. Meteoroid</p> <p>d. Crater</p>                                                                                                                           | 20 |
| 12 | <p><b>What causes the Moon to revolve around Earth?</b></p> <p>a. <b>Earth's gravity</b></p> <p>b. the Sun's gravity</p> <p>c. gravity of moon</p> <p>d. None of the above</p>             | 13 |
| 13 | <p><b>The given photo is showing a _____</b></p> <p>a. Meteor</p> <p>b. Meteorite</p> <p>c. Meteoroid</p> <p><b>d. Crater</b></p>                                                           | 20 |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 14 | <p>Based on what you know about gravity, what causes Earth's changing tides?</p> <p>A. Tides are caused by tropical storms such as hurricanes.</p> <p>B. Tides are caused by the pull of gravity between Earth and the Moon.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 21 |
| 15 | <p>What causes the tide to bulge on the side of Earth facing the Moon?</p> <p>A. Earth's water bulges on the side facing the Moon because of the pull of gravity.</p> <p>B. The Moon reverses its orbit and causes the tides to change.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21 |
| 16 | <div>© McGraw-Hill Education</div>  <p>Look at the diagram of the Sun, Earth, and Moon. What would a nighttime observer on Earth see? Circle the answer that best matches your thinking.</p> <div> <div> <p>A.</p>  <p>A full moon</p> </div> <div> <p>B.</p>  <p>A crescent moon</p> </div> <div> <p>C.</p>  <p>A quarter moon</p> </div> <div> <p>D.</p>  <p>No moon is seen</p> </div> </div> | 23 |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 17 | <p>Rotation creates _____ on earth</p> <ul style="list-style-type: none"> <li>a. Day and night</li> <li>b. Season</li> <li>c. Tides</li> <li>d. Crater</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 31 |
| 18 | <p>How much time it takes to complete one revolution of earth around sun</p> <ul style="list-style-type: none"> <li>a. One day</li> <li>b. 29 days</li> <li>c. 1 year</li> <li>d. 24 hours</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 31 |
| 19 | <p>What will happen if earth is not tilted on its axis</p> <ul style="list-style-type: none"> <li>a. Day and night will be equal</li> <li>b. Day will be longer</li> <li>c. Night will be longer</li> <li>d. Day and night will not be equal</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                              | 31 |
| 20 | <p>Which of the following is showing summer</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>a</p> </div> <div style="text-align: center;">  <p>b</p> </div> <div style="text-align: center;">  <p>c</p> </div> <div style="text-align: center;">  <p>d</p> </div> </div> | 31 |
| 21 | <p>What causes seasons on Earth?</p> <ul style="list-style-type: none"> <li>a. Earth tilted axis and revolution both</li> <li>b. Earth tilted axis only</li> <li>c. Revolution only</li> <li>d. None</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 31 |

## Seasons

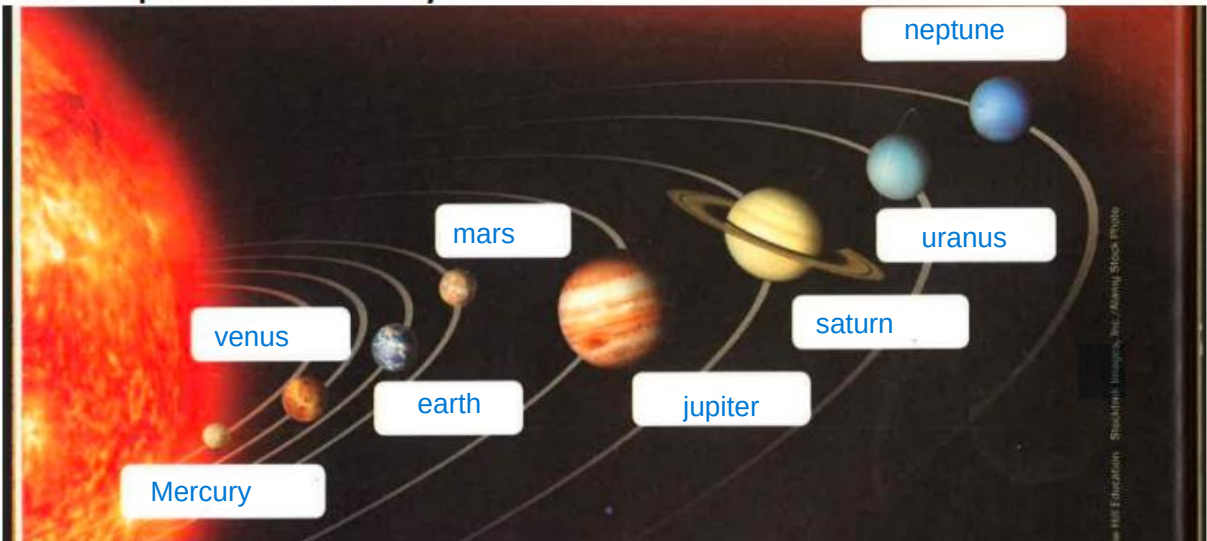
As Earth revolves around the Sun, the tilted axis always points in the same direction. When the Northern Hemisphere tilts away from the Sun, the Northern Hemisphere's surface does not receive as much energy, and temperatures are lower. In the Northern Hemisphere, this is winter.

✓ At the same time, it is summer in the Southern Hemisphere. The Southern Hemisphere tilts toward the Sun, so Sun's energy is more concentrated. The surface receives more energy, and temperatures are warmer.

✓ Because the tilt of Earth's axis always points in the same direction, the seasons in the Northern Hemisphere and the Southern Hemisphere are always opposite. ✓ In spring and autumn, both hemispheres receive equal warmth from the Sun, making temperatures similar in both hemispheres.

If northern hemisphere of the Earth tilts away from sun, it is

- 
- a. Winter in the Northern hemisphere
  - b. Summer in the Northern hemisphere
  - c. Fall on Northern hemisphere
  - d. Spring in the Northern hemisphere

|    |                                                                                                                                                                                      |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 23 | <p>Label the planets in the solar system.</p>                                                      | 60 |
| 24 | <p>During an equinox _____</p> <p>a. Day and night are of 12 hours ✓</p> <p>b. Day and night are not equal</p> <p>c. Day is longer than night</p> <p>d. Night is longer than day</p> | 32 |
| 25 | <p>Between inner and outer planets, a belt of space rocks is called _____</p> <p>a. Meteor</p> <p>b. Meteorite</p> <p>c. Meteoroid</p> <p>d. Asteroid</p>                            | 60 |
| 26 | <p>A large round object in space that orbits the Sun is called _____</p> <p>a. Moon</p> <p>b. Craters</p> <p>c. Planets</p> <p>d. Asteroids</p>                                      | 60 |

27

Which of the following planets are inner planets

a. Mercury, Venus, earth, mars ✓

b. Jupiter, Saturn, Uranus, Neptune

c. Mercury, Jupiter, earth, mars

d. Mercury, Venus, earth, Saturn

60

28

1. Based on the data table, what conclusion can you draw?

| Planet  | Length of Day (hours) | Length of Year (Earth years) | Distance from the Sun (AU) |
|---------|-----------------------|------------------------------|----------------------------|
| Mercury | 1,408                 | 0.2                          | 0.4                        |
| Venus   | 5,832                 | 0.6                          | 0.7                        |
| Earth   | 24                    | 1.0                          | 1.0                        |
| Mars    | 25                    | 1.9                          | 1.5                        |
| Jupiter | 10                    | 11.9                         | 5.2                        |
| Saturn  | 10                    | 29.4                         | 9.5                        |
| Uranus  | 17                    | 84.0                         | 19.2                       |
| Neptune | 16                    | 164.8                        | 30.0                       |

A. The farther a planet is from the Sun, the longer its day.

B. The farther a planet is from the Sun, the longer its year.

C. A day on Earth is longer than a day on Venus.

D. Uranus is the coldest of all the planets.

65

2. A planet is a large, round space object that \_\_\_\_\_ the Sun.

A. attracts

C. follows

☒ B. orbits

D. reflects

3. Circle all that apply.

Stars appear to move in the sky because of Earth's \_\_\_\_\_.

A. axis

☒ B. rotation

C. poles

D. galaxies

☒ E. revolution



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### Writing Part

write word in correct blank : ( 4 mark )

**Distance - 1/6 - force - total mass - gravity**

1- Any object with mass has Gravity

2- Gravity is a force that pull objects toward each other

3- Two factors effecting of gravity between 2 objects

are mass and distance

4- person would weigh on the moon about ..... times that on Earth.

# Review

## EXPLAIN THE PHENOMENON

Why are some stars  
brighter than others?

### Summarize It

Use what you have learned to explain what stars are and why some appear brighter than others when we look at the night sky.

Stars are spheres of hot gas that give off heat and light. Some stars appear brighter than others due to their size or their relative distance from Earth. For example, the Sun is the closest star to Earth, which is why it is brighter than all of the other stars and visible during the day.



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### Three-Dimensional Thinking

1. Which statement explains why scientists use a unit called a light-year when writing about the large distances between Earth and distant stars?
  - A. Light travels at different times during different times of the year.
  - ☒ B. Stars are so far from Earth that writing their distance in kilometers can become difficult to understand.
  - C. There are too many stars in space to measure using kilometers.
  - D. It sounds more scientific.

2. The table shows the distance of five different stars from Earth.

| Star   | Distance from Earth (light-years) |
|--------|-----------------------------------|
| Star A | 8.6                               |
| Star B | 11.4                              |
| Star C | 6.0                               |
| Star D | 4.2                               |
| Star E | 7.7                               |

Based on what you learned about star distances, choose the correct order of the stars as they appear from brightest to dimmest, based on their distance from Earth.

- A. Star B, Star A, Star E, Star C, Star D
- B. Star A, Star B, Star C, Star D, Star E
- ☒ C. Star D, Star C, Star E, Star A, Star B
- D. Star E, Star D, Star C, Star B, Star A



