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Science & Living In God's World 4 - Text & Workbook Answer Key

IMPORTANT NOTE: The answers below are for the questions in the Textbook. The answers for the Workbook can be found in the back of this booklet after page seventeen (13).

UNIT ONEpage 10

If God had not made a plan for the universe, the planets would not follow any path; they would probably get in each other's way and hit each other.

page 12

1. We can say that God put a compass in the sky for sailors because God made a plan for the stars. Some of the stars are in groups that make beautiful patterns. Knowing these patterns and stars can help you find your way at night.

2. The stars look tiny because they are much farther away than our sun.

3. We do not see the stars during the day because our sun is much nearer to us than the stars are so its light is much brighter. At night the light from the sun does not reach us, then we see the stars clearly.

page 14

1. Answers will vary. We got our month from the changes in the moon.

page 17

1. Without the sun the earth would be dark and cold. Nothing could live without the sun, there would be no plants, and animals can not live without plants.

2. The lower plant did not have enough sun.

page 19

1. Men once thought that the earth was flat because they did not know better, they had not traveled far from land.

2. One man was Christopher Columbus.

page 21

1. Answers will vary.

2. Answers will vary.

3. Answers will vary. Other ways parts of the earth have been made include volcanic eruptions and buckling of the earth's crust.

page 23

1. Answers will vary

2. We might think of a volcano as a weak spot in the earth's surface because it is an opening where the hot melted rock from the earth's center comes up.

page 27

1. We cannot live without the solid part of the earth because all of our food comes from it. We eat the plants that grow on the land. Most of the meat that we eat comes from animals that eat these plants.

We cannot live without the liquid part of the earth because man can only live a few days without water.

We cannot live without the gas part of the earth because we need oxygen to breathe, which is one of the gases in the atmosphere.

page 31

1. The very center of the top and bottom of a spinning top are like the North and South Pole.

2. We do not fly off the earth as it rotates because the force of gravity pulls us towards the earth.

page 33

1. The two ways that God causes the earth to move are its rotation on its axis and its revolving around the sun.

2. These two motions are important to us because the earth's rotation gives us our day and night. The earth's revolutions give us our seasons and our year.

page 35

1. It is important for us to know what the correct time is so that we may go where we are supposed to go when we are supposed to.

2. Answers will vary

3. When it is nine o'clock in your time zone it would be ten o'clock in the time east of you.

4. When it is four o'clock in your time zone it would be three o'clock in the time zone west of you.

UNIT ONE: What Have You Learned?page 36

1. We know what the moon is like because our astronauts landed on the moon, we were able to learn many things about the moon that we did not know before. We know what the stars are like because we have studied them with telescopes.

2. Some of the important parts of the universe are the planets, the stars, and the sun.

3. The difference between the stars and planets is that the

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planets revolve around the sun in a path. The stars do not travel in a particular path, nor do they revolve around the sun.

4. We cannot see the stars during the day because our sun is much nearer to us than the stars, and for us the light from it is much brighter. The sun's light is so bright that we do not see the stars during the day. At night the light from the sun does not reach us. Then we see the stars clearly.

5. Half of the moon is always lighted by the sun, and the moon reflects that sunlight. This is where the light of the moon comes from.

6. Stars can help us find our direction at night. Some of the stars in the sky make a beautiful pattern; we can use these patterns to find out which direction we are going.

7. The moon helps us to tell time, we derived our month from the phases of the moon.

8. The sun, the moon, the stars, and the planets are all alike in that they all have a plan and place in the universe.

9. The atmosphere helps us in many ways, it contains the necessary gases we need to breathe.

10. Plants cannot live without the sun because they need its light and heat to live.

11. We know that the earth is round because if you watch a ship coming toward you from out at sea, you would not be able to see all of the ship until it comes over the curved surface of the ocean.

12. We know that the other planets and stars are round because scientists have looked at them through telescopes.

13. It is not possible to say which part of the earth—land, water, or air—is most important, because without any one of them nothing could live.

14. When we breathe we use the gas called oxygen.

15. The sun seems to move because the earth is moving, it thus gives the appearance of the sun moving.

16. The rotation of the earth gives us our days and nights.

17. We have an extra day every four years because it takes the earth 365 $\frac{1}{4}$ days to revolve around the sun. This leaves us $\frac{1}{4}$ of a day extra, each year. Four years multiplied by $\frac{1}{4}$ of a day each year gives us one full day.

18. When we say that the atmosphere close to the earth's surface is denser than the atmosphere above.

- 19.
1. The *atmosphere* is a thick blanket of air surrounding the earth's surface.
 2. *Carbon dioxide* is one of the gases in the atmosphere.
 3. The *earth's axis* is an imaginary line running down the center of the earth from the North Pole to the South Pole.
 4. The pull of the earth on everything is called *gravity*.
 5. A *moon* is a large body that travels around a planet. It does not have an atmosphere nor does it make its own light or heat.
 6. One of the gasses in air is called *oxygen*, nothing can live without it.
 7. A *planet* is large body that revolves around the sun in a path.
 8. The moon *reflects* sunlight, meaning it throws the light back.
 9. The planets *revolve* around the sun, this means that they travel around the sun in a particular path.
 10. The spinning of the earth on its axis is called *rotation*.
 11. A *star* is a large ball of gas burning in the sky, which we see light in the sky at night.
 12. The *sun* is a star which the earth and eight other planets revolve around.
 13. *Time Zones* are parts of the country that the government has decided have the same time.
 14. The *universe* includes everything that God has made. All the stars, planets, moon and sun are a part of the universe.
 15. A mountain that explodes or boils up is called a *volcano*.

UNIT TWO

page 39

1. Answers will vary.

page 43

1. Answers will vary.
2. If a creature must breathe then it must also take in food. If a creature can move then it must also breathe.