

**REVISION BOOKLET**  
**MIDTERM EXAM FIRST SEMESTER 2018**  
**SCIENCE 7**

**Name:** \_\_\_\_\_  
**Grade:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

## QA: True or False

**Directions:** *On the line before each statement, write T if the statement is true or F if the statement is false.*

- \_\_\_\_\_ 1. A cylindrical projection makes land near the poles seem smaller than it actually is.
- \_\_\_\_\_ 2. If you cross the International Date Line from west to east, it is a day earlier.
- \_\_\_\_\_ 3. A map scale explains all the symbols used on any type of map.
- \_\_\_\_\_ 4. A conical projection shows the shapes of areas near the equator accurately.
- \_\_\_\_\_ 5. Two cities between two meridians that are next to one another are in the same time zone.

## QB: Completion

**Directions:** *On each line, write the term or phrase from the word bank that correctly completes each sentence. Not all terms are used.*

### Part 1

**gain**                      **International Date Line**                      **lose**                      **map legend**  
**map scale**                      **meridians**                      **prime meridian**                      **time zone**

1. Colors and symbols used on a map are shown in the \_\_\_\_\_.
2. A(n) \_\_\_\_\_ relates distance on a map to actual distance on Earth's surface.
3. A(n) \_\_\_\_\_ is an area on Earth's surface between two \_\_\_\_\_ where the time is the same.
4. You \_\_\_\_\_ a day when traveling east to west across the \_\_\_\_\_.

### Part 2

**geologic map**                      **map legend**  
**map scale**                      **slope**                      **time zone**

5. An area of Earth where the time is the same is a \_\_\_\_\_.
6. A \_\_\_\_\_ relates distances on a map to actual distances on Earth's surface.
7. A \_\_\_\_\_ is a representation that shows faults, rock types, and rock ages.
8. All the symbols used on a map make up the \_\_\_\_\_.
9. \_\_\_\_\_ is a measure of the steepness of the ground.

**Part 3**

**asteroids      dwarf planets      meteors      planets**

- 10. \_\_\_\_\_ share their orbits with other similar objects.
- 11. Small, rocky objects in orbit between Mars and Jupiter are \_\_\_\_\_.
- 12. Streaks of light that occur as space objects enter Earth's atmosphere are \_\_\_\_.
- 13. Spherical objects that have their own orbital paths are \_\_\_\_\_.

**QC: Short Answer**

*Directions: Respond to each statement on the lines provided.*

- 1. **Compare** and **contrast** a profile view and a map view.

---

---

---

- 2. **Compare** and **contrast** latitude and longitude.

---

---

---

- 3. **Compare** and **contrast** conical and cylindrical projections.

---

---

---

---

- 4. **Sequence** the main steps in the formation of our solar system.

---

---

---

---

5. **Identify** two effects that the Moon has on Earth.

---

---

6. **Draw** a diagram that shows the contrast between solar and lunar eclipses.

7. **Compare** and **contrast** Earth to two other types of objects in the solar system.

---

---

---

8. **Synthesize** What causes earthquakes? Where and why do most earthquakes occur?

---

---

---

---

9. **Define** *mid-ocean ridge*. Along which type of plate boundaries do they form?

---

---

---

10. **Define** *volcano* and explain where most volcanoes form.

---

---

---

11. **Contrast** the mountains that form at different plate boundaries.

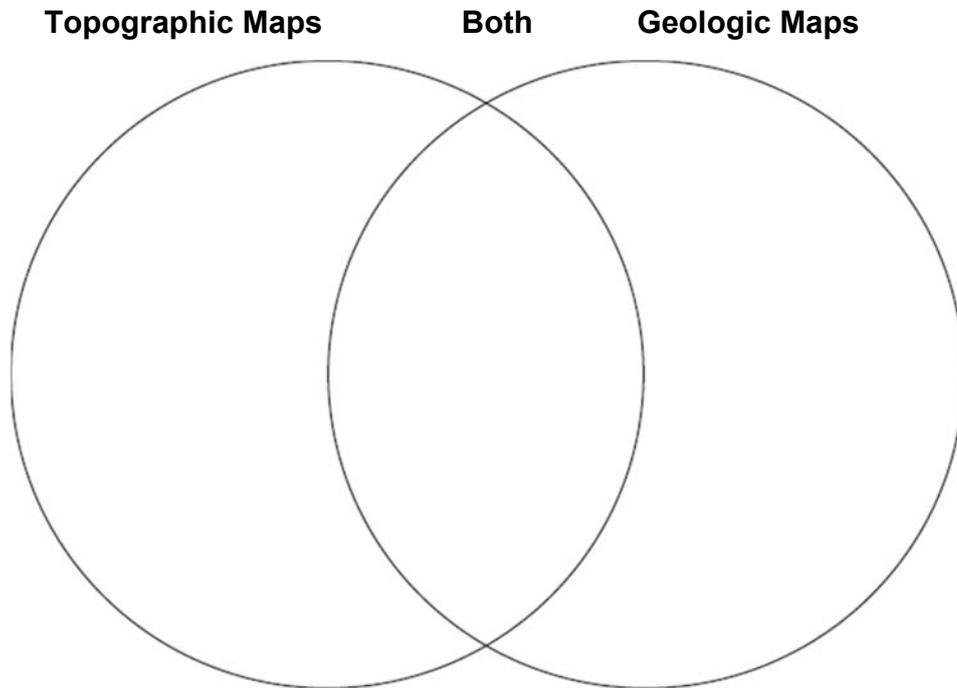
---

---

---

**QD: Venn Diagram**

1. Fill in the Venn diagram below to compare and contrast topographic and geologic maps. Include two characteristics that apply to topographic maps only, two characteristics that apply to geologic maps only, and at least one characteristic that topographic and geologic maps have in common



**QE: Multiple Choice**

**Directions:** *On the line before each question or statement, write the letter of the correct answer.*

- \_\_\_\_\_ 1. Which occurrence is **NOT** an effect that the Moon has on Earth?  
A. tides  
B. eclipses  
C. seasons
- \_\_\_\_\_ 2. Which set shows the correct order during a solar eclipse?  
A. Earth, Sun, Moon  
B. Sun, Moon, Earth  
C. Moon, Earth, Sun
- \_\_\_\_\_ 3. When is the Moon waning?  
A. between full moon and last quarter  
B. between first quarter and full moon  
C. between new moon and first quarter
- \_\_\_\_\_ 4. \_\_\_\_\_ has more mass than the rest of the planets combined.  
A. Earth  
B. Jupiter  
C. Uranus

- \_\_\_\_\_ 5. Which statement is true?
- A. Venus and Earth are similar in size and make up.
  - B. Mercury and Earth have similar sizes and atmospheres.
  - C. Earth and Uranus appear to be blue because of methane gas.
- \_\_\_\_\_ 6. All stars are gaseous spheres that
- A. are similar to the Sun.
  - B. emit energy from their cores.
  - C. belong to the Milky Way galaxy.
- \_\_\_\_\_ 7. Which sequence describes the structure of the universe from smallest to largest?
- A. solar systems → galaxies → clusters → superclusters
  - B. superclusters → clusters → galaxies → solar systems
  - C. clusters → superclusters → solar systems → galaxies
- \_\_\_\_\_ 8. Seasons are caused by Earth's
- A. tilt on its axis.
  - B. rotation on its axis.
  - C. distance from the Sun.
  - D. gravitational pull on the Moon.
- \_\_\_\_\_ 9. During a lunar eclipse,
- A. the Moon's far side faces Earth.
  - B. Earth casts a shadow on the Moon.
  - C. the Moon is between the Sun and Earth.
  - D. Earth, the Sun, and the Moon form a right angle.
- \_\_\_\_\_ 10. Between which phases is the Moon waxing?
- A. full moon and new moon
  - B. last quarter and full moon
  - C. full moon and last quarter
  - D. new moon and first quarter
- \_\_\_\_\_ 11. Which planet is most unlike Earth?
- A. Mars
  - B. Pluto
  - C. Mercury
  - D. Neptune
- \_\_\_\_\_ 12. Which statement is true?
- A. All stars are smaller than the Sun.
  - B. All stars produce light and thermal energy.
  - C. Most stars are only a few light-years from Earth.
  - D. The Sun is one of many stars in the solar system.
- \_\_\_\_\_ 13. According to the Big Bang theory,
- A. Earth's revolution is getting longer.
  - B. the solar system is shaped like a ball.
  - C. the universe began from a single point.
  - D. gravity is causing the universe to collapse.

- \_\_\_\_\_ 14. The most abundant gases in the air are
- A. argon and ozone.
  - B. oxygen and nitrogen.
  - C. carbon dioxide and methane.
- \_\_\_\_\_ 15. Gases flow and swirl in the
- A. troposphere.
  - B. stratosphere.
  - C. thermosphere.
- \_\_\_\_\_ 16. Which statement is **NOT** true?
- A. Liquid water exists only on Earth's surface.
  - B. Most water on Earth is found in the oceans.
  - C. About 3 percent of water on Earth is freshwater.

### QF: Interpreting a Diagram

Directions: Use the diagram to answer each question or respond to each statement.

12. **Cause and Effect** Which Earth motion, *a* or *b*, causes day and night?

\_\_\_\_\_

13. **Identify** the season that the northern and southern hemispheres are experiencing when Earth is at position *d*.

\_\_\_\_\_

\_\_\_\_\_

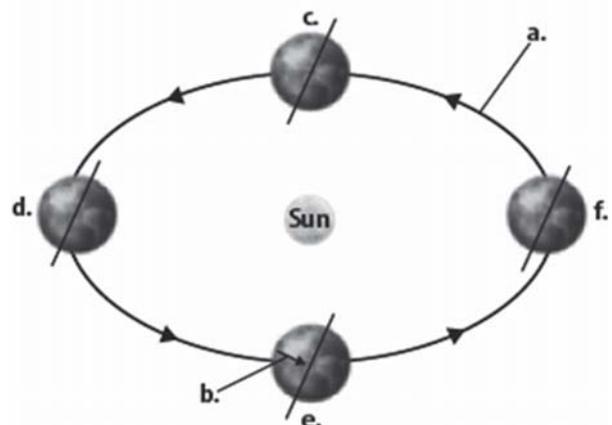
14. **State** At which position, *d* or *f*, is Earth closer to the Sun? Which season is it in the northern hemisphere?

\_\_\_\_\_

15. **Summarize** what happens in both hemispheres when Earth is at position *c*. Use the word *equinox* in your response.

\_\_\_\_\_

\_\_\_\_\_



**Directions:** Label this diagram by writing the correct term from the word bank on each line. Each term is used only once.

**atmosphere**

**biosphere**

**geosphere**

**hydrosphere**

1. \_\_\_\_\_

2. \_\_\_\_\_



3. \_\_\_\_\_

4. \_\_\_\_\_

## QG: Matching

**Directions:** *On the line before each definition, write the letter of the term that matches it correctly. Each term is used only once*

- |       |   |                         |
|-------|---|-------------------------|
| _____ | 1. layer where weather occurs                                 | <b>A.</b> exosphere     |
| _____ | 2. layer that protects the biosphere                          | <b>B.</b> mesosphere    |
| _____ | 3. highest layer in which temperature increases with altitude | <b>C.</b> stratosphere  |
| _____ | 4. least dense layer of the atmosphere                        | <b>D.</b> thermosphere  |
| _____ | 5. middle layer of the atmosphere                             | <b>E.</b> troposphere   |
| _____ | 6. process by which a liquid changes to a gas                 | <b>F.</b> condensation  |
| _____ | 7. process by which plants release water vapor into the air   | <b>G.</b> evaporation   |
| _____ | 8. process by which a gas changes to a liquid                 | <b>H.</b> precipitation |
| _____ | 9. any moisture that falls from clouds                        | <b>I.</b> transpirati   |

