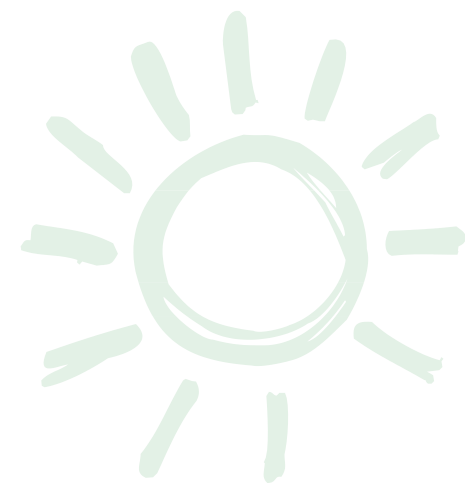




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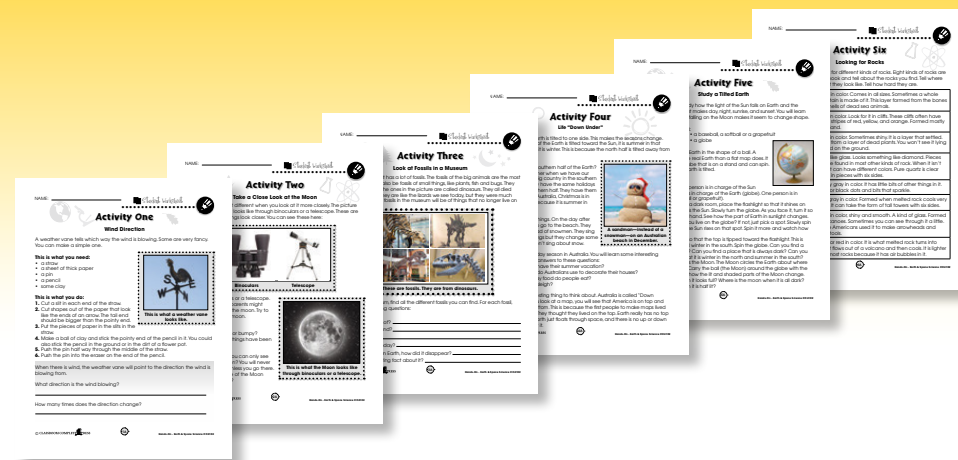
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## Solar System

1. Circle **T** if the sentence is True or **F** if it is False.

- T F a) Earth is a planet.  
 T F b) Our Sun is the only sun.  
 T F c) Earth travels around the Sun in one day.  
 T F d) You can't tell time without clocks.  
 T F e) The Moon always looks the same.

2. Put a check mark (✓) next to the answer that is the most right.

a) Which is most like the Sun?

- A a star  
 B a planet  
 C the Earth  
 D the Moon

b) Which motion is correct?

- A The stars travel around the Earth.  
 B The Earth travels around the Sun.  
 C The Sun travels around the Moon.  
 D The Earth travels around the Moon.

c) What makes shadows?

- A air  
 B rain  
 C sunlight  
 D wind



## Solar System

**Y**ou can only see the Sun in the daytime. You can only see the stars at night. You can usually see the Moon at night. Sometimes you can see the Moon in the daytime. The Sun, Moon and stars look like they are all about the same distance from us. They are not. It looks like the Moon and Sun are about the same size. They are not. The Sun is much bigger than the Moon. It is also much farther away from us than the Moon. That is why the Sun and Moon seem to be the same size.

The **stars** are really other suns like our own. They look like tiny specks of light because they are so far away. We can't see stars in the daytime because they are not bright enough. Even though we can't see them they are up there all day long.

The **Moon** does not make its own light. We can see it because sunlight bounces off of it. We don't see the Sun at night because it is on the other side of the Earth. It looks like the Sun moves around behind the Earth. This is not true. It is Earth that is moving. Earth spins around once a day.

When the Sun is shining, we see shadows. The shadows point away from the Sun. During the day, the length of shadows changes. This is because the Sun moves across the sky. In the early and late parts of the day, shadows are long. In the middle of the day, shadows are short. Shadows help tell time. One way is with a sundial. On a sundial, the shadow points to the time of day.



This is a sundial. The shadow says it is 4 o'clock.

**STOP!** You are watching a sunset. Where is your shadow?

\_\_\_\_\_

\_\_\_\_\_



## Solar System

1. Put a check mark (✓) next to the answer that is the most right.

a) How many days does it take the Moon to move around the Earth?

- A 1  
 B 4  
 C 28  
 D 365

b) Which is closest to Earth?

- A the Sun  
 B the stars  
 C the Moon  
 D the planets

c) How many planets are there?

- A three  
 B five  
 C seven  
 D eight

2. Circle **T** if the sentence is True or **F** if it is False.

- T F a) Sundials are used to tell time.  
 T F b) Shadows are short at sunrise.  
 T F c) The Moon is a planet.  
 T F d) There are two planets between Earth and the Sun.  
 T F e) The moon gives off its own light.



## Solar System

3. Answer the questions in full sentences.

a) How does the Earth move? There are two ways. How long does each move take?

\_\_\_\_\_

\_\_\_\_\_

b) Why can't we see the Sun at night? Why can't we see the stars during the day?

\_\_\_\_\_

\_\_\_\_\_

### Extension & Application

4. Make a lunar calendar. These are calendars that keep track of the Moon and how it moves. Make your own calendar to keep track of the Moon's movements. Using the graphic organizer on page 12, watch the Moon.

- Each night, write down when the Moon was first seen in the sky. This is the time the Moon rises.
- Draw a picture to show the 'shape' of the Moon.
- Check every day, or every 7 days.

What do you notice about the change every 7 days?  
 How many hours later does the Moon rise after 7 days?

Do this activity alone or in groups of 7. If alone, either watch the Moon every night, or every 7 days to make it easier. If in groups, each student can be in charge of 1 day during the 7-day week.





# Planet Tracking

In this experiment, you will watch the movement of the planets. This will help you understand how planets move through space.

Watch a planet. Planets move around the Sun the way Earth does. The planets move at different speeds. This is why planets are in a different place in the sky each night.

This is what you will need:

- Binoculars and telescopes are tools that make things look closer. If you can get a pair of binoculars or a telescope this might be more fun, but you don't need them. You can watch planets with your eyes.
- A stargazing program (optional). You can get this for free on a tablet or phone.



Venus in the night sky.

This is what you do:

1. First, try to find a planet in the sky. You can see five planets with your eyes. Three are easiest to see. They are called Venus, Mars, and Jupiter. They are brighter than most stars. A good time to look is just after sunset and just before sunrise. Look where the Sun just set or where it is about to rise. Look near the edge of the sky. If you still need help, use a free stargazing program on your tablet or phone. Point it to the sky to find a planet.
2. Mars is easy to spot because it is more red than the other stars. When you think you have found a planet, make a little star map.
3. Pick three bright stars near your planet and draw a picture of the stars and your planet.
4. Make a new map each night.

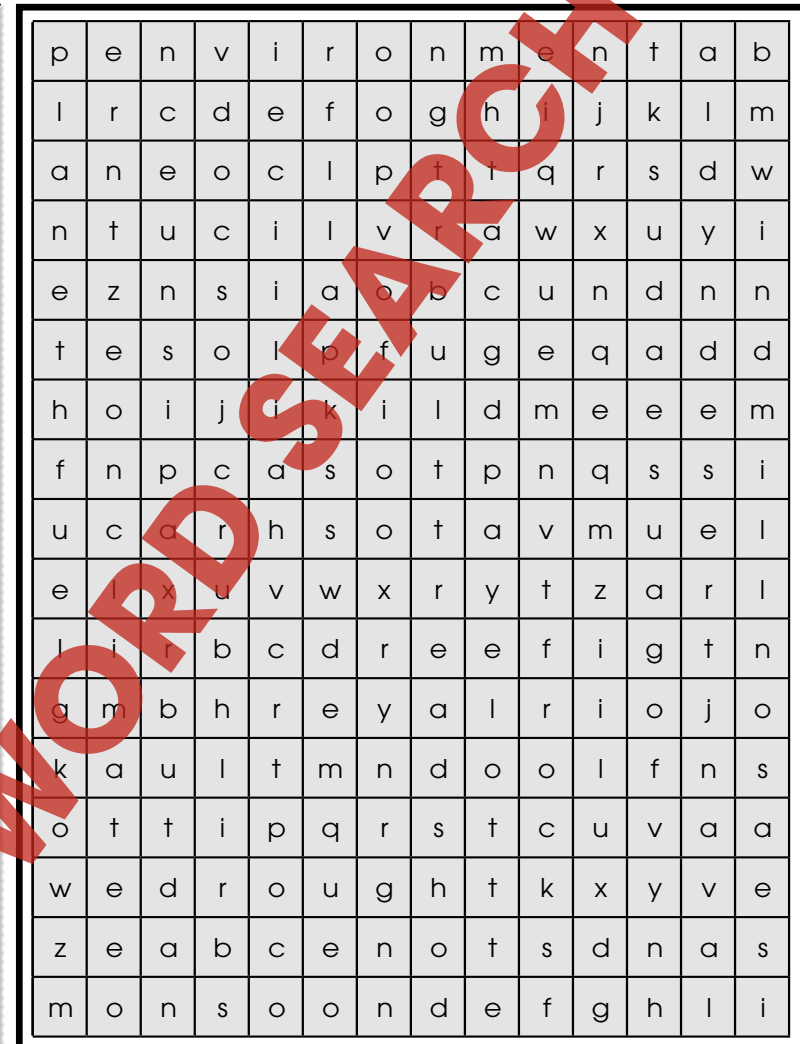
Planets are in a different place each night because they are moving around the Sun. If you have found a planet, it will be in a different spot each night. The other stars on your star map will be in the same places.



# Word Search

Find all of the words in the Word Search. Words are written across, up, down, on an angle, and some are even written backwards.

- climate
- cloud
- desert
- dune
- drought
- environment
- equator
- erosion
- flood
- fog
- fossil
- fuel
- hail
- lava
- layer
- Mediterranean
- monsoon
- planet
- precipitation
- rocks
- sandstone
- season
- tropical
- windmill



# Comprehension Quiz

## Part C

Answer each question in full sentences.

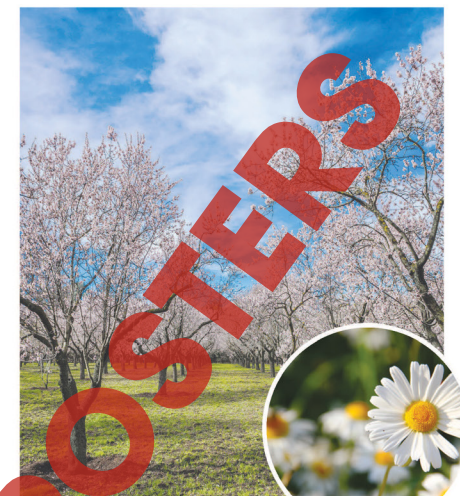
1. Tell why we can't drink the water in the ocean. Tell why we can't drink most water that is not in oceans. 2
2. Tell which things are in the solar system. 3
3. What is the rule about the age of rock layers? 2
4. Tell about the rock cycle. Begin with, "Rocks wear away." 6
5. Tell how the lengths of shadows change during the day. Begin with sunrise, and end with sunset. 3

SUBTOTAL: /16

# The Four Seasons



WINTER



SPRING



SUMMER



FALL





# Solar System



1. Put a check mark (✓) next to the answer that is the most right.

a) How many days does it take the Moon to move around the Earth?

- A 1
- B 4
- C 28
- D 365

b) Which is closest to Earth?

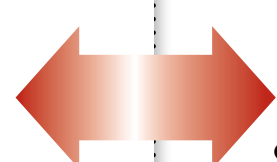
- A the Sun
- B the stars
- C the Moon
- D the planets

c) How many planets are there?

- A three
- B five
- C seven
- D eight

2. Circle **T** if the sentence is True or **F** if it is False.

- |   |   |    |  |
|---|---|----|--|
| T | F | a) | Sundials are used to tell time.                  |
| T | F | b) | Shadows are short at sunrise.                    |
| T | F | c) | The Moon is a planet.                            |
| T | F | d) | There are two planets between Earth and the Sun. |
| T | F | e) | The moon gives off its own light.                |



1.

a)  C

b)  C

c)  D

3.

a) Earth spins around once a day. Earth moves around the Sun once a year. It takes 1 day for earth to spin. It takes 1 year, or 365 days for earth to move around the Sun.

b) We can't see the Sun at night because it is on the other side of the Earth. We can't see the stars in the daytime because they are not bright enough.

4.

The full moon rises just as the Sun sets. After 7 days, the Moon will rise 6 hours later. After another 7 days, the Moon will rise 6 more hours later. After 4 weeks, the full moon will be back and the cycle starts over.

2.

a)  T

b)  F

c)  F

d)  T

e)  F

10

11

