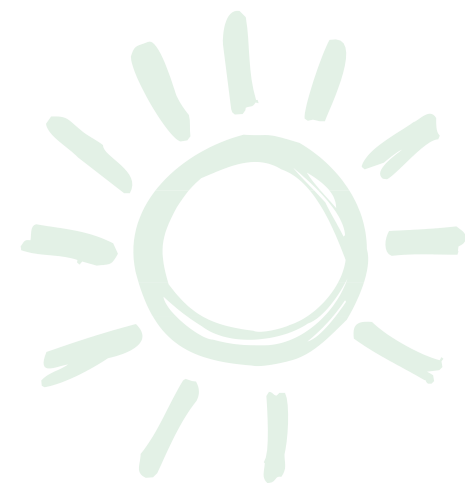




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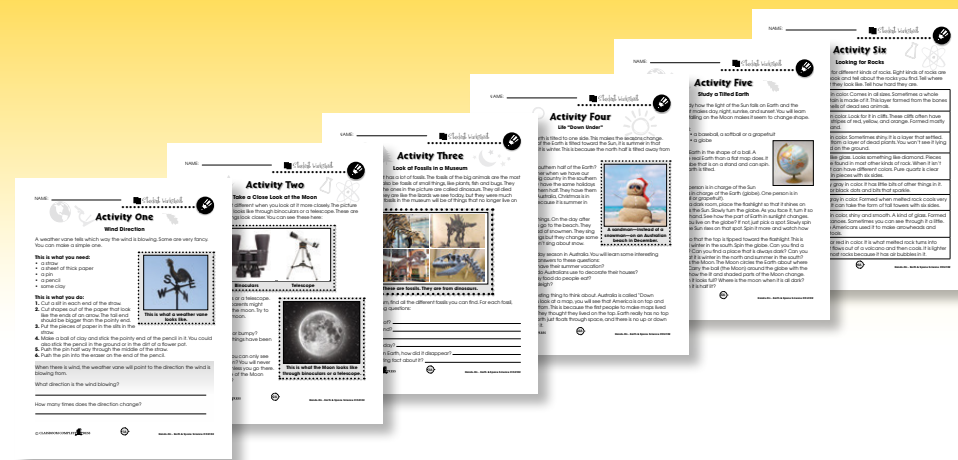
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Weather

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

- T F** a) Fog is like a low cloud.
T F b) Snow is water.
T F c) Deserts get a lot of rain.
T F d) Ten inches of rain in one day is a small rainstorm.
T F e) People like to keep their home at about 104°F (40°C).

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

a) When it doesn't rain for a long time it is called a _____.

- A blizzard
 B drought
 C monsoon
 D tornado

b) What does a tornado have?

- A fast winds
 B slow winds
 C cold
 D heat

c) It almost never rains when it is _____.

- A clear
 B cloudy
 C cold
 D hot



Weather

Weather can be either: wet or dry, hot or cold, cloudy or clear, windy or still.

Wet or Dry

Wet weather means rain. The air is full of water we can't see, called **water vapor**. Water vapor is water that is a gas. When air filled with this gas rises, it cools. When it cools enough, it turns into water. This starts as very small drops of water. When lots of little drops end up in the same place, a **cloud** appears. When the drops get big enough, rain falls from the cloud.



A thunderstorm can have a lot of rain.

A kind of rainstorm is a thunderstorm. These happen on hot summer days. We hear the boom of thunder and see flashes of lightning. Sometimes it rains so much there is a **flood**. A flood is when there is too much water. Streams and rivers rise above their banks. Sometimes a whole town is under water. Snow happens when it's cold outside. Water vapor changes into little pieces of ice instead of drops of rain. These are called snowflakes. Rain and snow are kinds of **precipitation**. Precipitation is any kind of water that falls to the ground. Another kind is **hail**. Hail is little balls of ice that fall from the clouds. **Fog** is like a cloud that is near the ground. You can't see very well in a fog.

What's the difference between rain, snow and hail?



Rainfall is measured in inches (millimeters). If it rained 1 in (25 mm) and you left a pot outside, the water in the bottom would be 1 in (25 mm) deep. Snow is fluffy, so it is deeper than 1 in (25 mm). 10 in (254 mm) of snow has just as much water in it as 1 in (25 mm) of rain.

Places that get very little rain are called **deserts**. A desert in South America only gets about half an inch (12.7 mm) of rain in a year. When a place has several dry years, it is called a **drought**. This means there's no rain to grow food.



Weather

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

a) Which is the shape of a tornado?

- A Narrow and flat.
 B Tall and round.
 C Short and wide.
 D Long and crooked.

b) What is a cloud made of?

- A Smoke.
 B Lightning.
 C Wind.
 D Small drops of water.

c) When air is warm it _____.

- A falls
 B rains
 C rises
 D snows

2. Finish each sentence with a word from the list.

hurricane hail precipitation desert

- a) Little balls of ice that fall from the sky are called _____.
- b) A storm with high winds that starts over the ocean is called a _____.
- c) A place that gets 1 inch (25 mm) of rain each year is called a _____.
- d) Rain and snow are two kinds of _____.



Weather

3. Answer the questions in full sentences.

a) How does a cloud form?

b) What is the weather like for a nice day. What is the temperature and wind like? What is the precipitation and clouds like?

Extension & Application

4. **Part 1:** When someone says what the weather will be like tomorrow, this is called a weather forecast. Find the forecast for the week. You can find this in a newspaper, on TV, or on the internet. For each day, write down what the real weather was like. Was the forecast you found right?

Part 2: Make your own forecast. Get into groups of 5. Each person will make a forecast for one day in the next week. Use your forecast from last week in Part 1 to help you. See if you were right with any of your days.

Use the graphic organizer on page 12. Write down the forecast that you find for Part 1. Write down the forecast you think it will be for Part 2. There's room to write what the actual weather was as well.



Make a Sundial

In this experiment, you will make your own sundial. You will also learn how to use the Sun to tell the time.

This is what you will need:

- a paper plate
- two pencils
- a watch or clock

This is what you do:

1. Turn the plate over.
2. Stick a pencil in the middle of the plate.
3. Try to get up when it is just starting to get light. It must be a sunny day.
4. Wait until it is an exact hour on the watch. It might be 5 o'clock or 6 o'clock. Whatever the time is, write the number where the shadow of the pencil falls. If it is 6 o'clock, write the number 6.
5. Do this every hour until the Sun sets.
6. Try out your sundial the next day.
7. Try out your sundial once a month.



How does the Sun tell the time?

What happens when you move your sundial to a different spot?

What happens when you spin your sundial around?

Does your sundial work at night? Why?

Does your sundial tell the same time every month? Why?



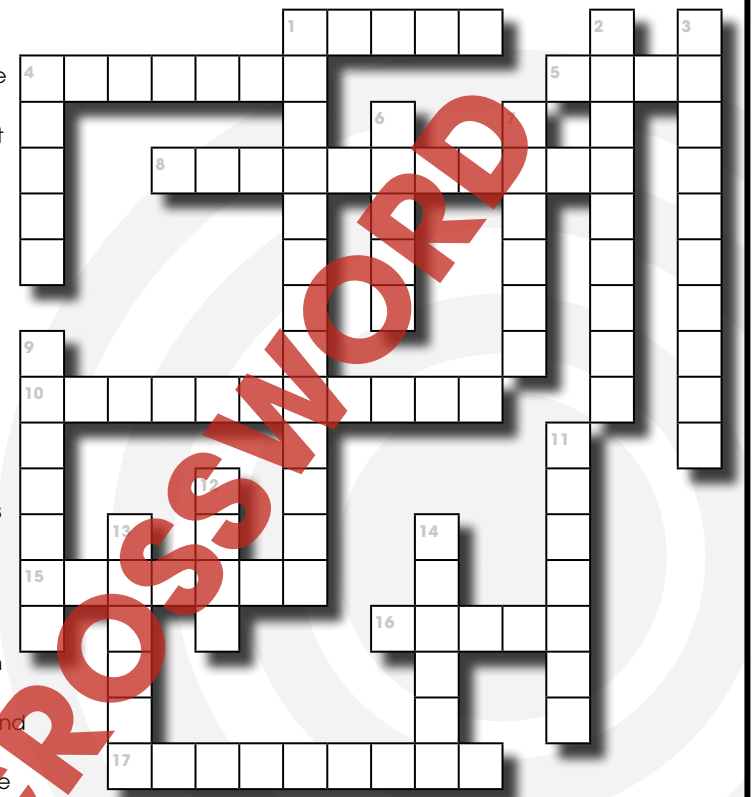
Crossword Puzzle!

Across

1. Melted rock underground.
4. The kind of weather a place has over the whole year.
5. Melted rock that comes out of a volcano.
8. The home of plants and animals.
10. Water turning into a gas.
15. Water taking away dirt.
16. Rocks form with one _____ on top of another.
17. Rocks that formed from bones and shells.

Down

1. This climate has rainy winters and dry summers.
2. The oceans are full of it.
3. Energy from flowing water.
4. Fluffy things up in the sky.
6. Energy from the Sun through _____ cells.
7. This place has sand dunes and not much rain.
9. "Partly cloudy with a chance of rain" is an example of a _____ report.
11. A rock that is made of just one kind of thing.
12. This falls from the sky and can hurt if it hits you.
13. What is left of something that died long ago. It has turned to rock.
14. Winter is one of the four _____ s.



Word List

- | | | |
|-------------|---------------|-------------|
| climate | hail | mineral |
| cloud | lava | salt water |
| desert | layer | season |
| environment | limestone | solar |
| erosion | magma | water wheel |
| evaporation | Mediterranean | weather |
| fossil | | |



Comprehension Quiz

Part A

Circle **T** if the sentence is TRUE or **F** if it is FALSE.

- 1) Clouds are a gas that we can see.
- 2) Summer comes after spring.
- 3) A Mediterranean climate has rainy winters.
- 4) The Moon is a planet.
- 5) All places on Earth get about the same amount of rain.
- 6) Erosion is a problem for farmers.
- 7) A city can get all its energy from the Sun.

Part B

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

a) Which is precipitation?

- A evaporation
- B lava
- C shadow
- D snow

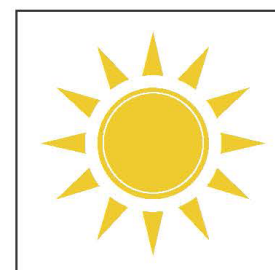
b) Most of Earth's water is _____.

- A frozen
- B in rivers
- C in the oceans
- D under the ground

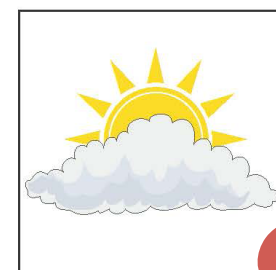
SUBTOTAL: /9

Weather Forecast

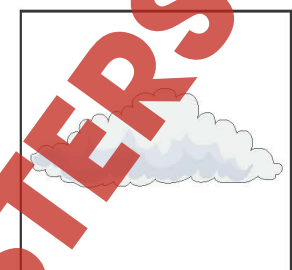
You might see these pictures on a map that tells what the weather is going to be like.



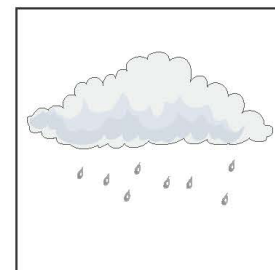
Sunny



Partly Cloudy



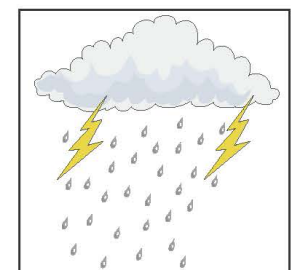
Cloudy



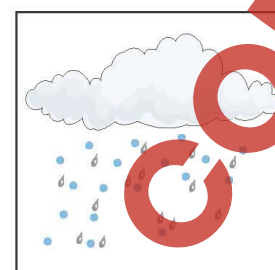
Light Rain



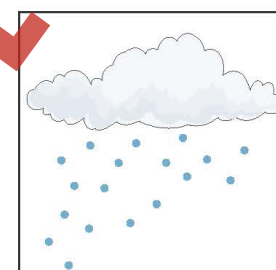
Heavy Rain



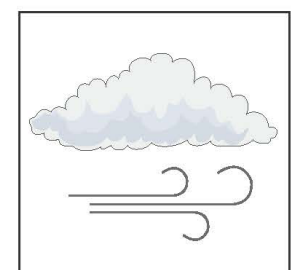
Thunderstorm



Snow & Rain



Snow



Windy



Weather



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

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hurricane hail precipitation desert

- a) Little balls of ice that fall from the sky are called _____.
- b) A storm with high winds that starts over the ocean is called a _____.
- c) A place that gets 1 inch (25 mm) of rain each year is called a _____.
- d) Rain and snow are two kinds of _____.

1.

a) B

b) D

c) C

2.

- a) hail
- b) hurricane
- c) desert
- d) precipitation

10

3.

a) Air cools as it rises. Cooling water vapor turns to liquid water. Small drops of water make a cloud.

b) Answers will vary, but may include: 70°F (21°C), little or no wind, no rain, a few clouds.

4.

Answers will vary.

EASY MARKING ANSWER KEY

