

WEATHER & CLIMATE



DIGITAL



PRINT

WEATHER & CLIMATE

What is the difference between weather and climate?

Meteorologists share weather information on the news throughout the day. Knowing the weather helps prepare the community in the event of extreme weather. For instance, Will it rain tomorrow? Do you need an umbrella? Are there snowstorms in the forecast? Is there a chance that school will be canceled? Is there a tornado in the area? Should we bolt the hatches to protect doors and windows? Some professions must really watch the weather: pilots, construction workers, and farmers.

Weather reflects temporary conditions. It measures the temperature, precipitation, air pressure, and cloud cover for a specific period of time. Weather changes daily based on air currents and storms. Weather is impacted seasonally by the earth's revolution around the sun.

A significant weather factor is the sun's energy and angle. Weather changes daily due to air pressure and temperature. Weather changes depending on wind, sunshine, humidity, and air pressure.

Weather can be sunny, cloudy, windy, rainy, and stormy. Sunshine, heat, cloudiness, wind, and rain affect daily weather conditions. Weather happens in the troposphere segment of the atmosphere.

The atmosphere is about 15 miles thick and surrounds the earth like a blanket. The six to ten-mile thick troposphere is the bottom layer of the atmosphere.

Hot and cold air masses directly impact the weather. When two air masses meet, it's called a front.

- A cold front happens when cold air pushes underneath a warm air mass. This cold air replaces the warm air. The warm air cools off and creates condensation. Now, there will be a mild temperature and a rainstorm.
- A warm front is caused when warm air moves over cold air. Warm air rises, condenses, and forms clouds. This causes rain or snow.

Measuring weather involves specific instruments:

- A thermometer measures air temperature
- A barometer measures air pressure
- A rain gauge measures precipitation
- An anemometer measures wind speed

About how many miles thick is the atmosphere? *

Fifteen

Thirty

Five

Fifty

How many basic types of climate are there? *

2

8

12

None of the above

What instrument measures air pressure? *

Thermometer

Barometer

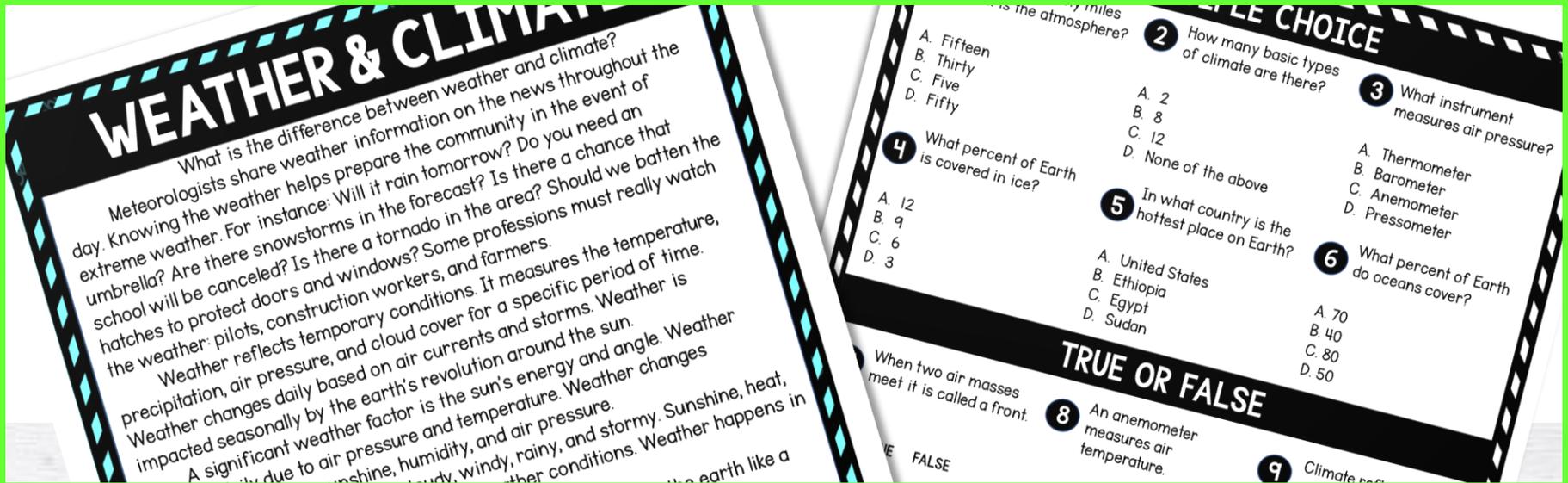
Anemometer

Pressometer



READING PASSAGE

15 QUESTIONS



DIGITAL OR PRINT



INCLUDED

- ✓ READING PASSAGE
- ✓ TEACHER DIRECTIONS
 - ✓ ANSWER KEY
 - ✓ 15 QUESTIONS
 - ✓ SELF-GRADING
- ✓ PRINTABLE VERSION
- ✓ DIGITAL VERSION



QUESTION TYPES

-  **MULTIPLE CHOICE (6)**
-  **TRUE OR FALSE (9)**
-  **EDITABLE QUESTIONS
(FOR DIGITAL VERSION)**

True

False



STUDENTS NEED

✓ ACCESS TO GOOGLE CLASSROOM™
(IF USING THE DIGITAL FORMAT)

✓ GOOGLE™ ACCOUNTS

✓ KNOW HOW TO ZOOM IN AND ZOOM OUT TO
ENLARGE OR SHRINK THE SCREEN

True

False



BENEFITS

-  SELF-GRADING
-  IMMEDIATE STUDENT FEEDBACK
-  PAPERLESS
-  NO PREP
-  SAVES YOU TIME
-  COMPREHENSION PRACTICE



OPTIONS



FRONT-LOADING



GROUP STATIONS



SUB PLANS



UNIT REVIEW



ENRICHMENT ACTIVITY



DIGITAL



PRINTABLE

