

Weather Place Check

Compare temperature and humidity across environments.

SC.5.E.7.5 "Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each detail about temperature and circle each detail about humidity. Write 1, 2, and 3 beside the swamp, desert, and mountain meadow details so you can compare them.

One Trip, Three Environments

- ① Weather can feel different when you travel from one environment to another. Temperature tells how warm or cool the air is. Humidity tells how much water vapor is in the air. A class weather team visited a swamp, a desert, and a mountain meadow during summer to notice how these conditions changed from place to place.
- ② At the swamp, the air was warm and humid. Wet soil and standing water added water vapor to the air. The team felt sticky as they walked beside reeds. Clouds and shade kept the afternoon temperature from becoming as high as the desert's temperature. Still, the swamp could be warm during the day and at night.
- ③ In the desert, dry air had low humidity because little water was available to evaporate. Sunlight heated the ground strongly, so the daytime temperature was high. On the mountain meadow, the team found cooler air. Higher elevations are often cooler than lower places. Humidity can change there as clouds, rain, or snow add water vapor. These environments do not have identical weather.

2 ANSWER WITH EVIDENCE Use the passage

1 Which environment had warm, humid air?

2 Why did the desert have low humidity?

3 Compare the desert's daytime temperature with the mountain meadow's temperature.

4 What is one humidity difference between the swamp and the desert?

3 YOUR TURN Your own words

Choose two environments not named in the passage. Write two sentences that compare their likely temperature and humidity, and include a reason for each difference.

PART 1 • READ AND MARK

Underline each detail about temperature and circle each detail about humidity. Write 1, 2, and 3 beside the swamp, desert, and mountain meadow details so you can compare them. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which environment had warm, humid air?	The swamp had warm, humid air.
2	Why did the desert have low humidity?	Little water was available to evaporate into the air.
3	Compare the desert's daytime temperature with the mountain meadow's temperature.	The desert had a high daytime temperature, while the mountain meadow had cooler air.
4	What is one humidity difference between the swamp and the desert?	The swamp had high humidity, while the desert had low humidity.

PART 3 • YOUR TURN (SAMPLE ANSWER)

A coastal beach is often more humid and cooler during the day than a dry grassland because ocean water evaporates and can moderate air temperature. A dry grassland can have lower humidity and become hotter in strong sunlight because it has less nearby water to evaporate.

Accept equivalent comparisons supported by the passage. For the open response, accept scientifically reasonable predictions that compare both temperature and humidity and give reasons, without treating all weather conditions as permanent.