

Forecast Detectives

Use a weather record to support a prediction.

4.4.a “weather measurements create a record that can be used to make weather predictions;”

NAME _____ DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the weather measurements that repeat or are similar, then circle the words that state the Saturday prediction, so you can see how the record supports it.

A Week of Morning Weather

① Weather tools help people make a record over several days. A thermometer measures air temperature. A wind vane shows wind direction, and careful observers note cloud cover and rain. At Cedar School, a class checked the weather at 8:00 each morning. Their record below shows three mornings with similar conditions.

CEDAR SCHOOL MORNING WEATHER RECORD

Day	Temperature	Wind Direction	Sky or Rain
Monday	18°C	North	Cloudy
Wednesday	17°C	North	Cloudy
Friday	18°C	North	Light rain

- ② On Monday and Wednesday, the temperatures were close, the wind came from the north, and clouds covered the sky. Friday had a similar temperature and north wind, but light rain fell. The class saw a pattern: cool air, a north wind, and many clouds appeared again and again. Repeated measurements made that pattern easier to notice.
- ③ On Saturday, the thermometer read 18 degrees Celsius and the wind still came from the north. The sky was overcast, which means it was fully covered by clouds. Using the record, the class predicted cool, cloudy weather and a chance of rain. A prediction is not certain, but a longer record can make it more dependable.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What weather pattern did the class notice in its record?

2 Which Saturday measurements were like the earlier record?

3 What Friday observation gave rain a place in the Saturday prediction?

4 How did repeated weather measurements help the class make a prediction?

3 YOUR TURN _____ Your own words

Make a three-day weather record with measurements that show a pattern. In the fourth row, write a Day 4 prediction that the record supports.

DAY	TEMPERATURE	WIND DIRECTION	SKY OR RAIN	DAY 4 PREDICTION

PART 1 • READ AND MARK

Underline the weather measurements that repeat or are similar, then circle the words that state the Saturday prediction, so you can see how the record supports it. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What weather pattern did the class notice in its record?	Cool temperatures, a north wind, and many clouds appeared repeatedly.
2	Which Saturday measurements were like the earlier record?	The temperature was 18°C, the wind came from the north, and the sky was covered with clouds.
3	What Friday observation gave rain a place in the Saturday prediction?	Light rain fell on Friday.
4	How did repeated weather measurements help the class make a prediction?	The repeated measurements helped the class notice a weather pattern and use it to predict Saturday's weather.

PART 3 • YOUR TURN (SAMPLE ANSWER)

DAY	TEMPERATURE	WIND DIRECTION	SKY OR RAIN	DAY 4 PREDICTION
Day 1	16°C	West	Cloudy	
Day 2	15°C	West	Cloudy	
Day 3	16°C	West	Light rain	
Day 4	not measured	not measured	not measured	Cool, cloudy, with a chance of rain

Accept equivalent descriptions of the repeated pattern, such as cloudy skies or cloud cover. For the open task, accept reasonable invented or real measurements when the Day 4 prediction matches a pattern in the first three rows.