

Summative Assessment (Performance) Directions Part II for
Weather Trackers

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Teacher Directions for Summative Assessment Part 2 (Performance Assessment)

1. Locate and/or make the following materials:

- Cup of water
- Ice cubes
- Thermometer for water, teacher made thermometer used in lessons
- Microwave or thermal container of hot water
- Pictures of wind vane, rain gauge (or the actual instruments—whichever were used in the lesson plans)
- Season cards labeled fall winter, spring, summer (2 of each) that will be used to make a pattern. (See unit's attached files.)
- Draw/paste small pictures of a stratus cloud, a cumulus, and cumulus cloud on sticky notes and place on a large calendar. Place the stratus cloud under Monday, cumulus cloud under Tuesday, no clouds for Wednesday, Thursday-cumulus, and Friday, Saturday and Sunday no clouds. Bring the calendar with you to the table as you test.
- Two pictures of groups of students. In picture A, students should be wearing summer clothing such as shorts, sandals, etc. and in B student should be wearing winter clothing such as hats, mittens, coats, etc.

2. **Be sure to read each question aloud twice for students** and allow time for them to choose the answer. **Read the answer choices aloud for students.** Remember, you are not assessing reading ability, but are assessing science and math concept knowledge. Students circle the correct answers except for # 8 and #13. An answer key is provided within the Summative Assessment Performance for Teachers Sheet. This assessment will be most successful if given individually or in very small groups.

3. Score the Summative Performance Assessment by giving 5 points for each correct answer. Use your own grading scale to determine if students are successful.

Summative Performance Assessment for Teachers Sheet

1. Pre-fill a cup with water and show ice cubes. Ask the following question: **Look at this cup of water and ice cubes. If I add the ice cubes to the water, is the water more likely, most likely or least likely to get cold?** (MAE21221) Students must indicate that the water is most likely to get cold.
2. Add the ice cubes to the cup of water and let it sit for a minute. Ask: **What tool could we use to determine the temperature of the water?** (SCH31121) To get the correct answer students must identify that the thermometer will be used.
3. Point to the rain gauge (or picture) and ask: **What does this measure?** (SCH31121) Students must indicate that it measures rainfall to get the correct answer.
4. Point to wind vane (or picture) and ask: **What does this measure?** (SCH31121) Students must indicate that it measures the direction of the wind to get the correct answer.
5. Point to the thermometer and ask: **What does this measure?** (SCH31121 and SCB11121) Students must indicate that it measures heat absorbed by an object.
6. Heat water in a microwave for 30 seconds or use water from a thermal container. Put a thermometer in the cup of hot water and label A. Put a second thermometer in the cup of ice water from question 2 and label B. (Use these two cups and the thermometer for questions 6-8) Ask students: **Which liquid would you least likely drink on a cold day?** (Answer: B)
7. Ask students: **Which would you most likely drink on a hot day?** (MAB11125) (Answer B)
8. **Ask students to read the thermometer's temperature in cup A.** (MAE21221) To get the correct answer, students must read the thermometer accurately.
9. Show students the calendar with the clouds attached. Ask students: **Which day of the week would most likely have a storm?** (Thursday)
10. Ask: **Which day or days of the week would least likely have rain?** (Wednesday, Friday, Saturday and/or Sunday)
11. Ask: **Which day of the week would most likely have fog?** (Monday)

12. Ask: **Which day of the week would most likely have good weather because of the big, white, fluffy cloud?** (Tuesday) (questions 9-12: MAE.1.1.1.2.4, MAE.2.1.2.2.1)
13. Hand out precut out season cards to students and have them put the seasons in order beginning with the season it is now. (SCH.2.1..12.1)
Students will correctly make a pattern with winter, spring, summer, fall, winter, spring, summer, fall. A place is provided to mark incorrect or correct on the student's paper.
14. Ask: **Which season is snow most likely to happen?** To get the correct answer, students must indicate winter.
15. Ask: **Which season is snow least likely to happen?** To get the answer correct, students must indicate summer. (questions 9,10: MAE.2.1.2.2.1)
16. Use the cup of water and ice from question 2. Point to the ice cube. Ask: **What state of matter is this?** To get the answer correct, students must indicate solid.
17. Use the cup of water and ice from question 2. Point to liquid water. Ask: **What state of matter is this?** To get the answer correct, students must indicate liquid.
18. Ask: **What state of matter is steam?** To get the answer correct, students must indicate gas. (questions 11, 12, 13: SCA.1.1.2.2.1)
19. Show the teacher made thermometer set to 85 degrees Fahrenheit. Ask: **Which of these sets of clothes would you most likely wear if the temperature outside is this?** (Answer: A) MAB.1.1.1.2.5
20. Show the teacher made thermometer set to 3 degrees Celsius. Ask: **Which of these sets of clothes would you most likely wear if the temperature outside is this?** (Answer: B) MAB.1.1.1.2.5

Name: _____

Summative Performance Assessment for Students Sheet

1. most likely more likely least likely
2. wind vane thermometer rain gauge
3. wind vane thermometer rain gauge
4. wind vane thermometer rain gauge
5. rain wind heat
6. A B
7. A B
8. _____
9. Monday Tuesday Wednesday Thursday Friday Saturday Sunday
10. Monday Tuesday Wednesday Thursday Friday Saturday Sunday
11. Monday Tuesday Wednesday Thursday Friday Saturday Sunday
12. Monday Tuesday Wednesday Thursday Friday Saturday Sunday
13. (Use the season cards to make a pattern.) Correct _____ Incorrect _____
14. spring summer fall winter
15. spring summer fall winter
16. solid liquid gas
17. solid liquid gas
18. solid liquid gas
19. A B
20. A B