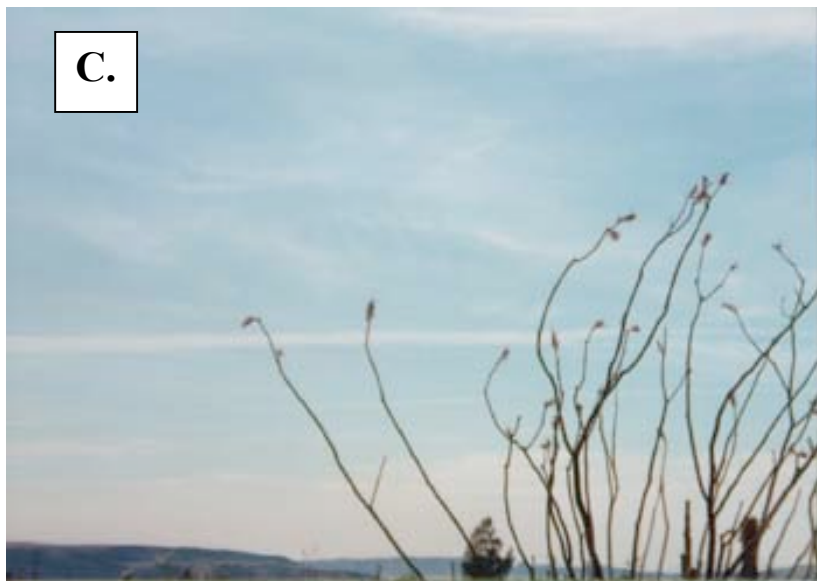


**ATMOSPHERE INVESTIGATION AREA  
GLOBE SAMPLE STUDENT ASSESSMENT TOOL - PRIMARY SCHOOL**

(Given data from the GLOBE data archives)



**ATMOSPHERE INVESTIGATION AREA  
GLOBE SAMPLE STUDENT ASSESSMENT TOOL - PRIMARY SCHOOL**

**E.**



**F.**



**ATMOSPHERE INVESTIGATION AREA**  
**GLOBE SAMPLE STUDENT ASSESSMENT TOOL - PRIMARY SCHOOL**

- 1) **(Take GLOBE Measurements: Make cloud observations that are accurate and appropriate)** Divide the pictures into groups by looking at the shape of the cloud. Name the type of cloud that you find in each picture.
- 2) **(Summarize and Communicate: Ask students to create a presentation that summarizes their knowledge about clouds and cloud types)** Use the pictures to make a poster that tells about clouds. Put the picture of the cloud type that is closest to the earth at the bottom of the poster. Put the picture of the cloud type that is highest in the atmosphere at the top of your poster.
- 3) **(Interpret GLOBE data: Explain the relationship between cloud type and atmospheric location of each cloud type)** Write the name of each cloud next to it. Under the name of the cloud, write where this type of cloud forms in the atmosphere – is the cloud close to the ground, trees and buildings? Very high up in the sky? Or at an in-between level?
- 4) **(Take measurements: Make accurate and appropriate measurements)** Decide how much of the sky is covered with clouds in each of the pictures. Is it MORE than half the sky? LESS than half the sky? Or is the sky clear, with NO clouds? Write the amount of cloud cover under the name of the cloud and its altitude.
- 5) **(Interpret GLOBE data: Infer patterns & trends in the pictures and explain the relationship between cloud type and precipitation)** Will it rain or snow later in the day from any of these clouds? How can you tell?

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Table 1 shows the early morning temperature at each of the school sites from the pictures on your poster.

Table 1: Early morning temperature at Schools

School Site	Temperature °C	Temperature °F
A	12.5	54.5
B	0	32
C	20	68
D	7.8	46
E	14	57.2
F	11	51.8

- 6) **(Analyze and Compare GLOBE data: Identify similarities and differences)**

Which of these schools has weather MOST LIKE the weather at your school today? What information did you use to decide your answer to this question?

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- 7) **(Analyze and Compare GLOBE data: Identify similarities and differences)** Which of these schools has weather MOST DIFFERENT the weather at your school today? What information did you use to decide your answer to this question?

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**ATMOSPHERE INVESTIGATION AREA**  
**GLOBE SAMPLE STUDENT ASSESSMENT TOOL - PRIMARY SCHOOL**

Imagine that you are a grown up who lives in a town that has one school. You have a morning radio show. Every morning on your way to work you drive past the school. On your radio show you tell the listeners what the weather is like at the school. You tell the children how to dress for school. Is it important to wear a raincoat? Should they bring an umbrella? etc.

- 8) **(Communicate: Ask students to compose informal discourse that informs, explains, and persuades)** Choose one of the school sites shown in pictures A - F that you would like to write about. Use the information in the picture and the temperature information in Table 1 to write the radio report that you will give about the school.

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