

## Practice Identifying Strategies 4 and 5 in Student Work

Students are looking at a week of weather data they collected that shows the weather conditions each day in the morning and the afternoon.

Decide whether each of the following student statements is making an observation, collecting data, analyzing/ interpreting observations or data, or constructing an explanation or argument. Use the STeLLA strategies booklet and the Quick Reference Tools for Strategies 4 and 5 to formulate a rationale for your decisions.

Student Statements	Observations/ Data	Analysis/ Interpretation (Patterns)	Constructing an Explanation	Constructing an Argument
1. "I see that it was sunny on two afternoons."				
2. "The mornings were blue, green, green, green, yellow."				
3. "The mornings were mostly cool or cold."				
4. "I think the afternoons were mostly warmer than the mornings because the Sun had more time to heat things up."				
5. "I disagree, because there were three cloudy afternoons, so how could the Sun heat things up if the clouds covered up the Sun?"				
6. "I partly agree with both statements. There were three cloudy afternoons, so how could the Sun heat things up if it was cloudy? But the temperature on those cloudy afternoons was yellow, yellow, red. That means it was warm and hot, so I think maybe the Sun heated things up <i>through</i> the clouds."				
7. "I think the weather is cloudier and cooler in the mornings than in the afternoons because look at our weather calendar."				
8. "I think it's cooler in the mornings because there are more clouds in the mornings than in the afternoons. We had five cloudy mornings and only three cloudy afternoons."				
9. "I just noticed that it was cloudy on all of the mornings."				