***Finding Answers in the Clouds* – Reasoning Guide G/T**
Complete the Reasoning Guide **in pencil** by marking an X for the column(s) to which the statement applies. Under **"reasoning,"** write why that statement is an argument or a piece of evidence. Highlight support in the article for each statement, and number your highlighted support to match the statement.

Argument   **Evidence**   **Inference**   **Statement and Reasoning:**

_____   _____   _____   **1.** Pollution is good for Earth because it is keeping the planet cooler.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **2.** Scientific airplanes are used to take measurements of solar radiation, cloud-drop size, turbulence and other characteristics in the atmosphere.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **3.** Smoke from power plants, automobiles, factories and other man-made sources contribute particles to the formation of brown clouds.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **4.** The Maldives have brown clouds because India became industrialized so rapidly.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **5.** Scientists are researching the impacts of pollution on albedo.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **6.** Greater amounts of pollution increase atmospheric albedo.
                                                              Reasoning: _____
                                                              _____

_____   _____   _____   **7.** In the long run, a stable climate for Earth is more important than human health.
                                                              Reasoning: _____
                                                              _____

Pollution Speeds up Snow Melt in Europe and Asia – **Reasoning Guide G/T**

Argument   Evidence   Inference   Statement

_____   _____   _____   **1.** Pollution is bad for the planet because it is darkening the snow and causing it to melt
away faster.
Reasoning: _____
_____

_____   _____   _____   **2.** In the springtime**, s**now melts more quickly in Europe and Asia than in North America.
Reasoning:_____
_____

_____   _____   _____   **3.** It is believed that aerosols are responsible for the difference in rate of melt between
European and Asian versus North American snow pack.
Reasoning:_____
_____

_____   _____   _____   **4.** The countries in Europe and Asia produce more aerosols than those in North America.
Reasoning: _____
_____

_____   _____   _____   **5.** Black carbon, mineral dust and organic matter decrease the albedo of snow by
absorbing solar radiation.
Reasoning: _____
_____

_____   _____   _____   **6.** In Eurasia, both carbon dioxide and particulates contribute equally to warming
temperatures.
Reasoning: _____
_____

_____   _____   _____   **7.** In North America, aerosols contribute less towards global warming than atmospheric
carbon dioxide.
Reasoning: _____
_____