**Post-Trip Geoscape Activity:  
The Grand River Watershed**

Examine the provided posters, and answer the following the questions on a separate sheet.

**Poster 1:**

1. Locate the Grand River watershed
   1. Describe its extent
   2. Discuss the distribution of population in it.
   3. Which cities are located on the Grand River?

**Poster 2:**

1. Discuss the distribution of bedrock in this watershed.
2. Which rock layer corresponds to:
   1. sea level?
   2. the bottom of the Elora Gorge?
   3. Rock Point Provincial Park?
3. Examine the core sample.
   1. How deep was the core sample taken from near Kitchener?
   2. What span of years does the core sample cover?

**Poster 3:**

1. Discuss the timeframe, the events, processes, and structures associated with the ending of the Ice Age in this watershed, and the nature and distribution of deposits left behind.
2. Discuss the formation and composition of:
   1. the Baden hills.
   2. the Waterloo moraine.

**Poster 4:**

1. Discuss the aquifers below this area where we live.
2. Examine the wells in the area.
   1. Estimate the number of wells.
   2. What was true of Kitchener’s wells 100 years ago?
   3. Explain how we get our water now.
   4. Suggest two reasons why Kitchener-Waterloo moved from the method in 8b to the method in 8c to obtain water.

**Poster 5:**

1. Consider the human impact on our groundwater.
   1. Discuss the human impact on our groundwater.
   2. What are we doing to reduce this impact?

**Beyond the Posters:**

1. Consider the Grand River watershed:
   1. Name the rivers and major tributaries within the Grand River watershed.
   2. List the major damns within the Grand River basin.
   3. Why are these dams in place? What was their historical purpose? What is their current purpose?