

## Analyzing Transformations in Ancient Pottery

Standards:

– Students will be able to analyze rigid transformations

At the front of the room there are three sets of pictures. Each set contains several pictures of ancient pottery from the Greek, Egyptian, or Incan civilizations. Your task is to choose one picture from each set and analyze the geometric transformations that were used to create the designs on the piece of pottery. In other words, describe the images or designs that you see on the pottery and then describe what transformations were used to move those images or designs to other locations. Answer the questions below as specifically and completely as possible. For each description, be sure to identify which picture you chose by recording the number that is located in the top right-hand corner of the picture.

1. Describe the transformations that were used to create the patterns in the Greek pottery. (I used picture # \_\_\_\_\_).
  
2. Describe the transformations that were used to create the patterns in the Egyptian pottery. (I used picture # \_\_\_\_\_).
  
3. Describe the transformations that were used to create the patterns in the Incan pottery. (I used picture # \_\_\_\_\_).
  
4. Describe the main differences between the examples of pottery from each civilization. What characteristics would you use to classify another piece of pottery that you were given?

**Rubric for the pottery analysis:**

	<b>Poor</b>	<b>Good</b>	<b>Excellent</b>
<b>Transformations in the Greek pottery are completely and accurately described</b>	Most transformations are inaccurate and explanation is inadequate and not descriptive (1 pt)	Some transformations are missing or not fully described (3 pts)	All transformations are completely and accurately described (5 pts)
<b>Transformations in the Egyptian pottery are completely and accurately described</b>	Most transformations are inaccurate and explanation is inadequate and not descriptive (1 pt)	Some transformations are missing or not fully described (3 pts)	All transformations are completely and accurately described (5 pts)
<b>Transformations in the Incan pottery are completely and accurately described</b>	Most transformations are inaccurate and explanation is inadequate and not descriptive (1 pt)	Some transformations are missing or not fully described (3 pts)	All transformations are completely and accurately described (5 pts)
<b>The differences and main characteristics are explained well</b>	Very few differences are identified and characteristics are not explained (1 pt)	Some difference are identified but explanation is not complete (2 pts)	The differences and main characteristics of each civilization's pottery are identified and explained well (3 pts)

Total score: \_\_\_\_\_ / 18