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| **Task:** Choose a cultural artifact, investigate it, and report on it from a mathematical perspective. Investigate the mathematics behind the artifact, and create/solve a mathematical problem based on your chosen artifact, at a skill level appropriate to your class. **What is a cultural artifact?** It is an object that has cultural significance to you. It could be a basket, carving, musical instrument, game, painting, picture, rug, statue, toy, food item, and so on. **Work:** Work individually or collaborate on your research with a peer from your class. Pairs of students who work together must still research two different artifacts. **Your research must include - Stage 1:** * Name of cultural artifact.
* Brief verbal description of artifact.
* Details about why you selected this particular artifact and how it connects to you, your family, your neighborhood, and your culture.
* Be prepared to present your chosen artifact to your classmates.

**Your research must include - Stage 2:*** A picture of the artifact.
* 1-2 handwritten paragraphs describing the artifact, its heritage, roots, cultural and historical significance.

**Your research must include - Stage 3:*** A detailed description (1-2 handwritten paragraphs) of the mathematics behind the artifact. Consider integrating the different mathematical strands that you have studied in your class, as well as in prior math classes. Your description should include both words and mathematics.

**Your research must include - Stage 4:*** Write and solve a mathematical word problem based on your chosen artifact, at a skill level appropriate to your class.

**Your research must culminate in - Stage 5:*** Consolidate all of the research conducted in the previous steps. Your research paper should be between 750 and 1000 words.

**Presentation:** Towards the end of the semester, you will give a 5-10 minute in-class presentation on your artifact to your classmates. **Assessment:** Your project will be assessed using a criterion that will be shared with you in Stage 2. ***Please bring any questions you may have about this research project to your teacher’s attention sooner rather than later. I look forward to learning about you and the mathematics of your culture.***  |

**Research about a Cultural Artifact from a Mathematical Perspective**