**CLAY BOATS**

**Description:**

Students will construct a clay boat from a wad of clay with a total mass of 25 grams.

Students will then float their clay boat in a tub of water. Plastic centimeter cubes (mass of l gram each or other objects of uniform weight) will be loaded in the hull of the clay boat one at a time until the boat sinks

**Number of Participants: 2**

**Approximate Time: 20 minutes**

**The Competition:**

1. Clay boats must be built on site with the clay provided by the Science Olympiad officials. Teams may NOT bring tools to assist them in the making of the clay boats.

 Each team will be given the same amount (25 grams) of unused and unworked Plasticine clay.

2. Participants will have 10 minutes to construct their clay boat. Teams will be timed during this time ( in which case the team that took the least amount of time would win). Teams may NOT try floating their boat during the 10-minute building period - all boats must have a dry start.

 3. During the launch and load period, team members will load their own clay boats. Loading some objects before floating the boat will be allowed; but if it sinks when launched, the team will receive a score of zero. All objects loaded after launching will be added one at a time with officials counting the objects as they are loaded. All boats must be loaded within the 10-minute launch and load period.

**Scoring:**

 The number of objects on board the clay boat as the boat sinks is the team's score. The highest score wins. ln case of a tie, shortest elapsed time during the construction period will determine the final score.

**Links :**

http://www.teachengineering.org/view\_activity.php?url=collection/duk\_/activities/duk\_float\_mary\_act/duk\_float\_mary\_act.xml#procedure

http://dustinyouthbusters321.wordpress.com/