

Professional Development for Educators Machines and Things: Catapults and Careers

Date: 4/8/2024

Time: 1:00pm-5:00pm

Location/Facilitating Party: Patriots Point Naval and Maritime Museum (PPDA),
Education Department

Direct Contact Hours: 4

[REGISTRATION CLOSSES APRIL 4TH](#); HGiddens@patriotspoint.org

Objectives:

- To demonstrate integration of cross-curricular concepts (Science, SS, Math) and using the engineering design process
- To demonstrate use of museums, primary resources for building career awareness and career exploration
- To showcase the value of primary resources and working with institutions in one's community

Overview:

Teachers will participate in a multi-station hands-on workshop that will include activities in Patriots Point's Naval and Maritime Museum's Education Center and various tour routes aboard the USS Yorktown. Participating teachers will build their own catapult using Patriots Point's Catapult Science, Engineering, and Social Studies Activity Kit as well as receive materials to recreate this activity in their classrooms. Scaling the activity up and down for varying grade levels will be addressed. The kit will come full circle with a visit to the Catapult Machinery Room aboard the USS Yorktown. Finally, a variety of shipboard careers will be addressed and accompanied with classroom resources.

Specific skills and standards addressed and/or related to the workshop include (but not limited to):

Grade Level	Social Studies	Science
7 th		<ul style="list-style-type: none">• 7-PS3-1• 7-PS3-2• 7-PS3-5
8 th	<ul style="list-style-type: none">• 8.5.CO	<ul style="list-style-type: none">• 8-PS2-2
9 th -12 th	<ul style="list-style-type: none">• MWH.4.P• USHC.5.CO	<ul style="list-style-type: none">• P-PS2-1• P-PS3-3

Vocabulary/themes related to the activity include (but not limited to):

energy, kinetic energy, potential energy, balanced forces, unbalanced forces, technological innovation