

Welcome to Family Transportation Activity Night

at Ocean Springs Upper Elementary School



Families attend **three 35-minute activity sessions:**

(i) **6:05-6:40 pm;** (ii) **6:45-7:20 pm;** (iii) **7:25-8:00 pm,**

includes two classroom activity sessions and short activities in cafeteria.

Short Hands On Activities (on your own in cafeteria)

- Against the Wind
- Let's Communicate
- Make A Traffic Sign
- Boats or Trains?
- Who Engineered It?
- Arches
- Boxing Beans
- What Do Engineers Do?
- Intersection Car Counter
- Label the Parts of a Ship
- Match Cargoes & Products
- What Does a Ship Captain Need?
- Soundproof package
- Who Engineered It
- Learning From Failure
- Wrap It Up
- Speed Detector

Hands On Classroom Activities

1. What Floats Your Boat?

Students apply the principles of buoyancy to create a boat from a stick of clay that will float in a tub of water and hold the most cargo without sinking.



2. Plot the Path into the Harbor

Students become familiar with nautical charts used to identify safe depth for passage, as a ship enters a harbor. They will use a wooden skewer to determine the water depth at different coordinate locations to find safe passage without running aground or hitting underwater obstructions.

3. Five Point Traffic Jam

Families become transportation engineers with the challenge of designing an intersection that is safe for children walking, riding bicycles, and driving to school, home, the park and the store.



4. Packaging Bananas

Family teams will compare the four common modes of transportation for moving goods and use the engineering design process to design a package to protect bananas from damage in transit.



Thanks for coming to Family Transportation Activity Night!!

Refreshments in the cafeteria! Everyone welcome!

**Coordinated by Michigan Tech\Center for Science, Math and Environmental Education
in partnership with
the University of Southern Mississippi's Center for Logistics, Trade and Transportation
and the National Center for Freight Infrastructure Research & Education**



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