

Engineering: Submarine Challenge

Project Equipment (tools used throughout week or common household items)

REQUIRED

- 1 pair of scissors
- 1 roll of duct tape
- 2-3 hand towels, or 1 standard bath towel
- Permanent marker
- 1 funnel (*possible substitution: paper plate or cardstock that can be rolled up into a funnel shape*)
- Access to bathtub, utility sink, or large plastic bin (55-75 quart capacity)

Activity Supplies (things that could be used-up during this program)

REQUIRED:

- [This set](#) of two 100 ml syringes and clear plastic tubing
- 1-2 plastic bottles, 16-20oz (label removed, clean, cap optional)
- 6-10 balloons, 12" (any color)
- 6-10 cable ties, 4" (*possible substitute: rubber bands*)
- 1 cup sand/pebbles/clay (*possible substitute: salt, uncooked rice, dried beans or peas, etc.*)
- Tap water
- 5-10 medium to large metal paper clips

BUILDING OPTIONS - ACQUIRE WHAT YOU CAN (chose ONE color-coded grouping)

Option 1 - stop an underwater oil leak

- 2-3, 2" inch diameter washers
- 1 small black plastic bag (garbage, grocery, etc)
- Scrap plastic
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Option 2: rescue a sunken object such as a vehicle, or injured animal, etc.

- 2-5 small (.5 -1 inch) ceramic magnets, disks or rings
- Hot glue gun and glue sticks
- Small, waterproof object/toy/figurine for "rescue effort" (i.e. small car, small animal, small 'person' such as a Disney princess or army guy)

Here is an Amazon Shopping List for items you may not have at home or that may not be easily available at your local store! [Amazon Link](#)