

DESIGN CHALLENGE: SHIPWRECKED!

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Can you design and build the tools you need to survive being shipwrecked on a deserted island?



DESIGN!

- 1 ASK:** Think about what kinds of tools you need to survive being shipwrecked on a deserted island. Examine the materials you have in your survival crate and think about how you could create items from the following list:

A lifesaving device

A tool for gathering food

A signal for help

Waterproof storage for food and supplies

A method for collecting water

Entertainment while on the island

Protective footwear

A shelter from the sun and rain

- 2 IMAGINE:** Brainstorm many different ideas about how to construct each of the survival items. Share ideas with your group.
- 3 PLAN:** As a team, pick the design ideas you like best, and plan which materials you will use for each design. Try and create as many tools from the list as you can with only the objects in your crate.
- 4 CREATE:** Build your inventions according to the plans you created with your team. Experiment using your devices to see if they will hold up or need improvement. Present your designs to your chaperone and design challenges staff.
- 5 IMPROVE:** What could you do to make your invention better? What would you add to it? What kinds of additional materials would you like to use? _____