

EXPLORATIONS 4/5: Floating Frenzy

Curriculum:

ADST: Designs can be improved with prototyping and testing.

Materials

Paper
Pencil
Variety of recycled materials
Small toys

Activities

Challenge: Create a model of a building that will float on water. Make sure your structure has an opening or door where you can place things inside. Create a diagram of your plan with all the materials labelled. Build your structure and test it out.

- What materials did you use for the base of the structure? Why did you choose those materials?
- Get 5-7 small toys such as Lego people, small blocks, or plastic animals and try to place them, one by one, into your structure. How can you change your structure to ensure it will continue to float with the toys inside?
- How would you change your floating structure if you were to build an additional room or story to your building?

Take a picture of your creation and share it with a family member or peer.

