

Build a boat like an engineer

Together as a family, help your child to think like an engineer as they build a boat. Encourage your child's ideas for trial and error. The key to this project is to have the children build the foundation of problem-solving skills.

Step 1 What's the problem?

- Design a boat that is able to float on the water for 10 seconds and hold passengers.

Step 2 Let's Brainstorm (Remember, all ideas are good ideas!)

- What are your ideas on the design of your boat? What materials are you going to use?

Step 3 Let's Plan it

- How are you going to arrange the materials?
- What is your plan to bring your idea to life? How are you going to attach all the different parts of your boat together?
- You can draw your plan on a piece of paper or can talk about it with someone.

Step 4 It's building time

- Bring your idea to life as you build your boat. Use different tools like scissors or tape to construct the boat.

Step 5 Let's test and revise it

- Bring your boat to a tub of water and see if it works. Count for 10 seconds to see if it will float and then add some passengers. If your boat doesn't float the first time, don't give up, you can keep revising it. Engineers often revise their models, and they never give up!
- If your boat is floating, congratulations! Now think about how you can improve it and make it even better?

Step 6 It's time to share it to others

- When you are finally satisfied with the design of your boat, you can share it with your family members, and we absolutely love to see the picture of it on our Padlet! Scientists and engineers share ideas to inspire others.

<https://padlet.com/MrsChannoi/d58kvpizem4x65zvK>

