

STEM Ahoy! Basketball Hoop Challenge Directions

Challenge:

Create a basketball hoop AND ball launcher made from household items.

Directions

*In this challenge you are designing 2 things: Your basketball hoop AND ball launcher!

*To increase level of complexity- separate your family into 2 teams! (One team will design the hoop & the other team will design the ball launcher!)

1. Research and brainstorm designs of basketball hoops.

2. Sketch your prototype/design of your basketball hoop.

3. Use research and sketches to start brainstorming your hoop prototype (what will the hoop look like? Will it be a classic hoop or have new features?)

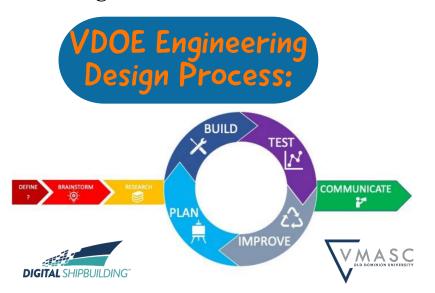
4. Plan your ball launcher prototype: draw or sketch the design. Watch some videos on catapults!

5. Use your household materials you chose to help with the ideas.

6. Make a model of your hoop!

7. Test your hoop and ball launcher designs! Will you have to modify?

8. Send a picture of you completing your challenge on Twitter and tag @classr00mrescue to be entered into the Tech Prize drawing!



Materials: