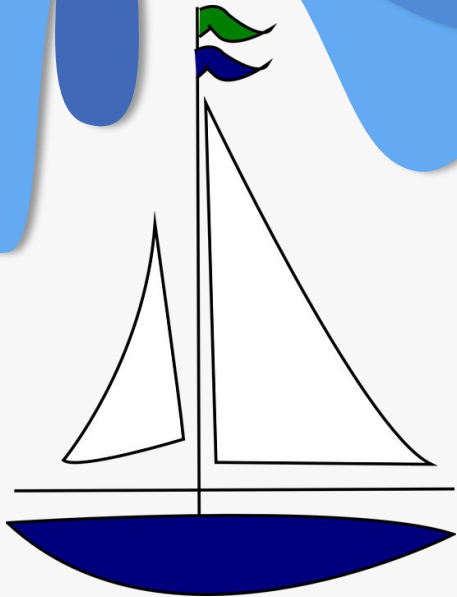
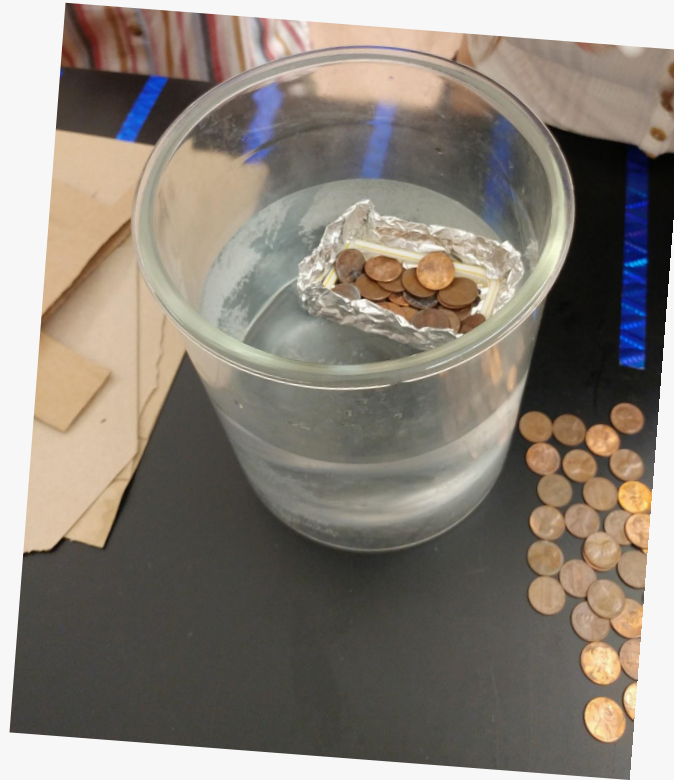


Build - a - Boat and Hope it Floats Remote!



Challenge

Build a boat capable of floating as many pennies as possible.

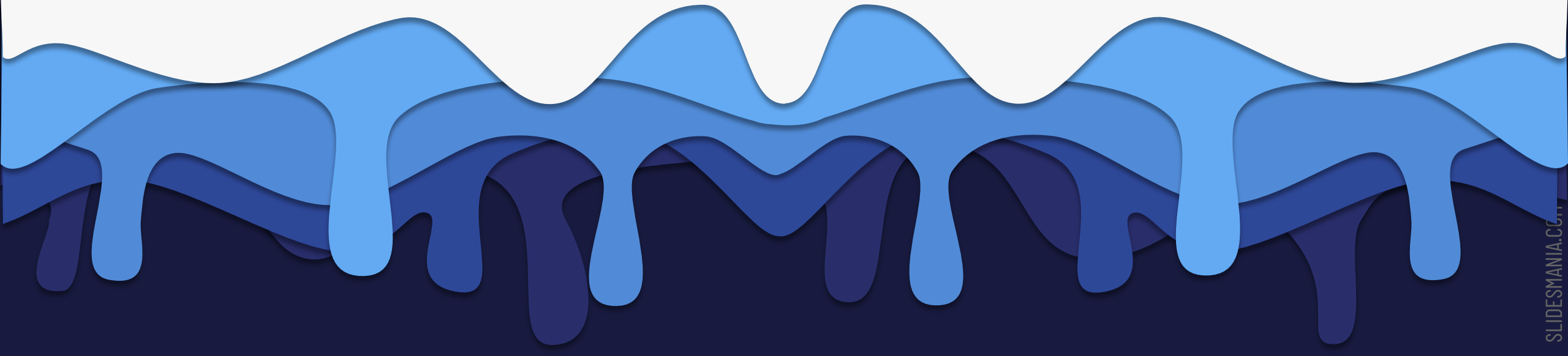




But, how?

- You will be provided a list of materials and their "prices".
- Build your boat to meet the time and size regulations . . .
- **There are many right ways to build!**

What are the rules?





The Great 2020 Build a Boat & Hope it Floats Challenge

begins soon!

- You have 15 minutes for construction.
- Boats cannot be larger than 4 cm x 6 cm x 10 cm that's **centimeters!** ([Printable Metric Ruler](#))
- You must calculate the total cost of your boat.



How to win!

The winner of the Boat
Float-off is the group earning
the **lowest** score based on the
following equation:

$$\text{Score} = \frac{\text{Total Cost}}{\# \text{ of pennies floated}}$$

Material Price List

Paper

\$0.10 for each cm^2

Aluminum Foil

\$0.20 for each cm^2

Clear Plastic

\$0.30 for each cm^2

Cardboard

\$0.50 for each cm^2

Paper Clips

\$0.25 each

Rubber Bands

\$0.50 each

Plastic Straws

\$0.10 for each 1 cm length

Clear Tape

\$0.15 for each 1 cm length

Duct Tape

\$0.75 for each 1 cm length



Ready? Set? Go!

First

Find a partner or try building your own boat.

Second

Gather your materials & plan construction.

You do NOT have to use all of the materials!

Third

Set a timer for 15 minutes & construct your boat.

Fourth

Test your boat in a full sink or big bowl of water by floating the boat & carefully adding pennies/coins until it sinks.

Fifth

Record a short video of the testing process. Be sure to get a clear picture of your boat before you add pennies.

How to present your results

By the way, there are no wrong results to this activity!



Create a Google Slide or Doc showing:

- A link to your video
- A complete list of materials and the individual costs as well as your total cost.
- Your calculated score = $\frac{\text{total cost}}{\text{\# of pennies}}$
- A list of things you discussed when designing the boat.
- A list of any obstacles that kept you from building a better boat.
- A list of your boat's best & worst features

Great work!



Credits.

Presentation Template: [SlidesMania](#)

They rock!

Erica Posthuma-Adams of AMTA - she rocks too!



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Sharing is caring!

