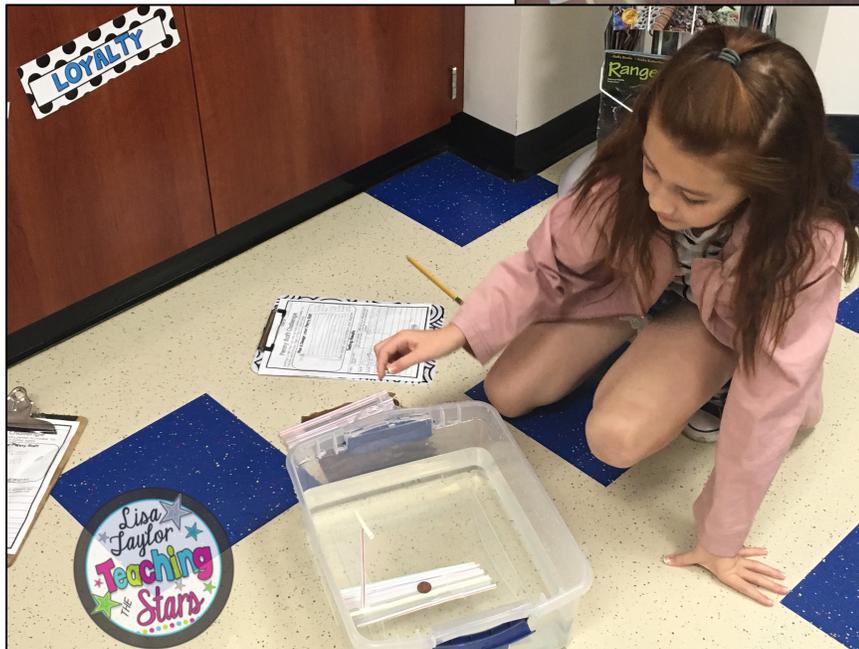
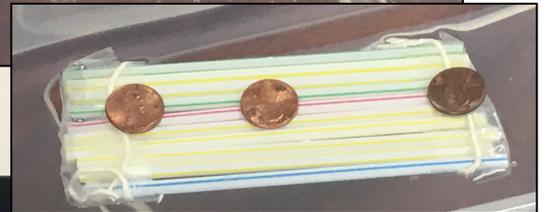


Penny Raft Challenge

Does Your Boat Float?

Materials:

- 10 straws
- tape
- rubber bands
- string
- Tub for water
- Pennies



Directions:

Students will design and engineer a raft. Students will create a raft that can hold the most pennies possible before sinking.

Penny Raft Challenge

Name: _____

Construct a raft that can hold as many pennies as possible. You may only use 10 straws, tape, string, or rubber bands.

Questions: How can I design a raft that will hold the most pennies? How should I place the pennies on the raft?

Plan & Design your Penny Raft

Label and list your materials in your diagram.

Testing Results

Trials	Did your raft float?	How many pennies did your raft hold?	What would you do differently next time? How did you position your pennies?
Trial #1			
Trial #2			
Trial #3			

Reflection:

Raft Challenge

Name: _____

Construct a raft that can hold as many _____ as possible.
You may only use 10 straws, tape, string, or rubber bands.

Questions: How can I design a raft that will hold the most _____?
How should I place the _____ on the raft?

Plan & Design your Raft

Label and list your materials in your diagram.

Testing Results

Trials	Did your raft float?	How many _____ did your raft hold?	What would you do differently next time? How did you position your _____?
Trial #1			
Trial #2			
Trial #3			

Reflection:

Name: _____

ASK

CREATE

DESIGN

PLAN

IMPROVE

THINK

What did you learn from your experiment?