Credit:

KG Fonts by Kimberly Geswein

Fat Frogs on a Skinny Log

STEAM QUESTION:
Can you design a floating log that can hold the most frogs?

Objective:

Design a floating log that can hold the most frogs.

Materials:

- "Fat Frogs on a Skinny Log" written by Sara Riches
- Bucket or bowl to hold water
- Craft sticks, straws, pipe cleaners,
- Tape
- Green caps or lids (to use as frogs) or plastic small frogs

Teaching Strategy:

1. Read the book "Fat Frogs on a Skinny Log".
2. Use the materials to design and construct a log that can float on the water.
3. Test your design. Does your log float? Give time for students to redesign as necessary.
4. Once the log is floating, place the "frogs" on the log one at a time.
5. Count together to determine how many frogs will fit on the log before it sinks into the water or until they start to fall off.

Guiding Questions:

- Why do you think the frogs wanted to sit on the log?
- Would you want to try to sit on a slimy, slippery, wobbly-bobbly log?
- What tool could you use to float on water?

STEAM EXPERIENCE:

Science: Explore floating and sinking concepts, as well as balanced and unbalanced forces.

Technology: Research frogs on the internet.

Engineering: Design, construct, test, and improve their logs to hold the most frogs.

ARTS: Draw a picture of a log in a pond with the number of frogs that their log held.

Math: Count the number of frogs their log holds, as well as draw those frogs on their picture.

My Frogs on a Log