

Pigs On A Boat

Supplies

- 1. Pennies (30 or more)
- 2. Container of Water
- 3. Plastic Lids (1 small, 1 medium)
- 4. 2 5X8 Pieces of Aluminum Foil
- 5. Towel



Directions

- 1. Place the container of water on a surface that would be fine getting wet.
- 2. Choose one of the lids to be your first boat.
- 3. Estimate (guess) how many pennies (piggies), when placed on the lid floating in the water, will make your boat sink. Write this number down.
- 4. Place the pennies (piggies) on your "boat" one at a time. Count as you place them on the lid. You might want to keep track by making a mark on the paper each time you place a penny. (tallies)
- 5. How close to your estimate were you?
- 6. Try again with the next lid. Estimate, record, place, then check your answer.
- 7. After you have used the lids as the boats, think about why one boat may have held a different amount of pennies? Was it the size, shape, or how thick it was?
- 8. Design a boat out of one of the rectangle sheets of aluminum foil. Estimate how many pennies it will take to make it sink.
- 9. Record your estimate and check it by placing pennies on it until it sinks.
- 10. Make another boat with a change in the shape or size. Estimate how many pennies it will take to make it sink.
- 11. How did your change affect the amount of pennies it could safely hold.