

# CAP Lesson Plan

## Archimedes

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### Summary

1. Subject(s): Archimedes
2. Topic or Unit of Study: Buoyancy & Displacement
3. Grade/Level: 3&4 year olds
4. Objective: foster curiosity and wonder over properties of water
5. Time Allotment: 30 min

### Implementation

#### Learning Context

How many of you like to play in the water when it's hot outside? We do too! Water is a wonderful thing! It's fun! It's delicious! It keeps us alive! Today we will learn two more things about water!

#### Procedure

- a. Anticipatory Set -Tell story of Archimedes/Read Floating & Sinking 5 min
- b. Station 1 - Buoyancy station 7 min
- c. Station 2 - Float or Sink? 7 min
- e. Station 3 - Aluminum foil boats 7 min
- f. Closing - Review Buoyancy, Displacement, Floating, Sinking, and Volume, Archimedes song/ stickers 5 min

### Materials

- a. Instructional Materials: 3 large see through tubs, water, red plastic cups and bowls, objects for float or sink, foil, glass pebbles, stickers
- b. Resources: Floating and sinking book
- c. Archimedes Song
- d. <https://www.scholastic.com/teachers/articles/teaching-content/books-teaching-about-water/>

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## Archimedes Song

### **Archimedes Song** (Tune of Old MacDonald)

Old Archimedes really loved Math  
Float! Sink! Splash!  
He thought real hard and he took a bath!  
Float! Sink! Splash!  
With a float float here  
And a sink sink there  
Here a float  
There a sink  
Everywhere a splash splash  
Old Archimedes really loved Math  
Float! Sink! Splash!

#### **Hand Motions:**

Float - First phase of jumping jack  
Sink - Jumping off of a diving board  
Splash - Slapping puddles to make a splash

