

Does it Sink or does it Float? (buoyancy)

Part One

Companion Document to the THE TV Science Video 1

The Scientific Method has __ parts.

Step 1: Observation

Step 2: _____

Step 3: Research

Step 4: _____

Step 5: Experiment

Step 6: Collect _____

Step 7: Draw Conclusions

Question: Why does some things sink and _____?

Research: Write down any notes from the Youtube video that you think might be helpful in the box below.

Part Two

Hypothesis (based on what I have learned – this what I think will happen)

Item	I predict it will		Explain why you predict this
	sink	float	
bowling ball			
bowling pin			
bouncy ball			
metal fork/spoon			
plastic spoon/spork			
Mountain Dew			
Diet Coke			
slice of bread (normal)			
crumpled up ball of bread			

Data Collection

Item	What actually happened?		Was my prediction correct? Circle One	
	sank	floated	Yes	No
bowling ball			Yes	No
bowling pen			Yes	No
bouncy ball			Yes	No
metal fork/spoon			Yes	No
plastic spoon/spork			Yes	No
Mountain Dew			Yes	No
Diet Coke			Yes	No
slice of bread (normal)			Yes	No
crumpled up ball of bread			Yes	No

Draw Conclusions: Circle the conclusions that can be drawn from the data and from what you have learned. (hint you will circle 3.) Extend: If it is incorrect, then write in the box why it is an incorrect conclusion.

you should only think about the weight of an object before determining if it will sink or float.	if an object is less dense than the water, then it will float	a bowling pen is less dense than water
a crumpled up ball of bread is more dense than a regular slice of bread lying flat	Mountain Dew is less dense than water	Mountain Dew tastes great

Surprise item: Fill in the blank and circle one.

_____ is (less dense or more dense) than water.

In your own words define density.
