Chapter 1 Lab
Part 1: Density
Determine the density of a quarter, dime, nickel, and penny using the balance and graduated cylinders.
Coin Type: Quarter
Mass:
Water Displacement:
Density:
Coin Type: Dime
Mass:
Water Displacement:
Density:
Coin Type: Nickel
Mass:
Water Displacement:
Density:

Coin Type: Penny
Mass:
Water Displacement:
Density:
Density of Conner: 9.06 a/ml
Density of Copper: 8.96 g/mL
Which of the two coins has the same density and copper concentration?

Part 2: Determining Temperature.
1.) Find the temperature of Cup A in degrees Fahrenheit.
Convert this temperature to degrees Celsius
Convert this temperature now to Kelvin
2.) Find the temperature of Cup B in Celsius.
Convert this temperature to degrees Fahrenheit.
Convert this temperature now to Kelvin.

Part 3: Dimensional Analysis

1.)	Craters be thirsty. A Big	Gulp soft drink	at 7-11 is 30 o	ounces. The	e Grand Canyo	on is big.
	Seriously. It has a volur	ne of 5,450,000	,000,000 cubi	c yards.		

1 ounce = 1.805 cubic feet 1 cubic yard = 27 cubic feet

Write in scientific notation.

2.) Mo' money, mo (weight) problem. Money is awesome. And money in bin form... as in Scrooge McDuck's money bin... is beyond awesome. (Note: watching an episode of DuckTales is a homework assignment if you have never watched it)

A penny weighs 2.5 grams. Jeff Bezos, owner and founder of Amazon, has a net worth of \$145,400,000,000. What would be the weight, in pounds, of Jeff Bezos's fortune if he liquidated all of his assets and exchanged it for pennies?

1 pound = 454 grams

Write in scientific notation.

3.)	Tim Janus is a great man. He holds the world record for longest belch at 18.1 seconds. Think about that for a second. Imagine it
	Anyway How many world record Tim Janus belches are there in one year?
	1 min = 60 sec 60 min = 1 hr 24 hr = 1 day 365 days = 1 yr
	Write in scientific notation.

4.) Flatulence can be awkward. Especially public flatulence. And disruptive. But also funny. The world record for longest SUSTAINED (cannot stress this enough) fart is 2 minutes 48 seconds.

The Alamo Draft House is holding a Harry Potter marathon. All of the Harry Potter movies combined are 19 hours and 39 minutes long. How many consecutive world record, and incredibly disruptive farts, could be contained within one Harry Potter marathon?

5.)	Always room for jello. A small box of jello makes 473 cubic centimeters of jello. The Great Pyramid at Giza has a volume of 91,230,000 cubic feet. How many boxes would it take to fill the entire pyramid with jello?
	1 cubic inch = 16.387 cubic centimeters 1728 cubic inches = 1 cubic foot
	Write in scientific notation.
6.)	Nate is going to be a rich man. Incredible advancements in fudge-related technologies have lead to the creation of fudge bladder protection system. If this technology had been available one hundred years ago, the titanic would never have sank.
	One Phat Fudge container holds 1.12 ounces of fudge. The total volume of the Titanic was 14,293,562.5 cubic feet. How many packages of fudge would be necessary to fill up the Titanic?