

Physics Essentials

Unit 2

Do Nows

Ess Phys DO NOW

Unit 2 Day 1

Make sure you take out your Do Now stamp sheet!

For the following units, decide whether each is **length, mass/weight, volume or temperature:**

Centimeters, ounces, gallons, liters, Celsius, pounds, meters, miles, quarts, pints, cups, feet, yards, Fahrenheit

Binder Checks & Binder Organization

- Expectation for Notes
- Expectations for Labs and worksheets
- New Unit? What to do with dividers and without dividers

Phys Ess DO NOW

Unit 2 Day 2

- 1) What is an example of a conversion factor?
 - 2) Avondale High School is 2.1 miles from your house. How many km is it from your house? (1 mi = 1.61 km)
 - 3) Each student spends 7 hours in school a day. There are 180 school days in a year. How many hours do students spend in school a year?
-

Practice on your own

- 1) You walk 5.5 miles in one day. How many km did you walk? (1 mile = 1.61 km)
- 2) You buy 10 packages of gum. There are 12 pieces in each package. How many pieces of gum do you have?
- 3) I have 24 ounces of water in coffee cup. How many grams of water do I have? (0.0353 ounce = 1 gram)

Dimensional Analysis Stations

5-8 minutes at each station

Follow each step and include units

DO NOT RUSH- You have 2 days to complete this

Phys Ess DO NOW

Unit 2 Day 3

- 1) Last night I slept 6.95 hours (actually I did). How many minutes did I sleep for? (60 minutes = 1 hour)
 - 2) How many seconds did I sleep for? (60 seconds = 1 minute)
 - 3) How many days did I sleep for? (24 hours = 1 day)
-

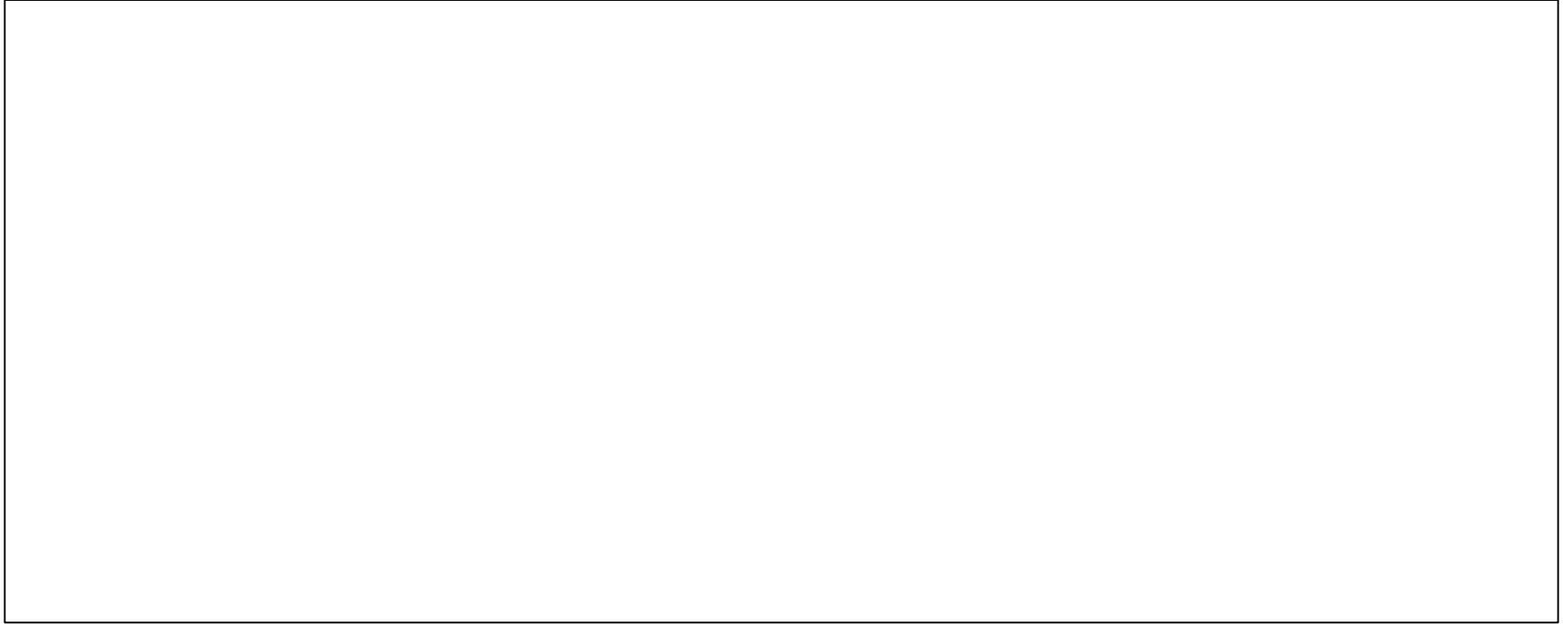
Phys Ess DO NOW

Unit 2 Day 4

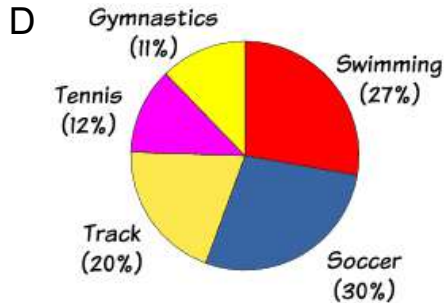
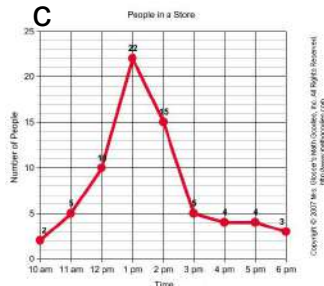
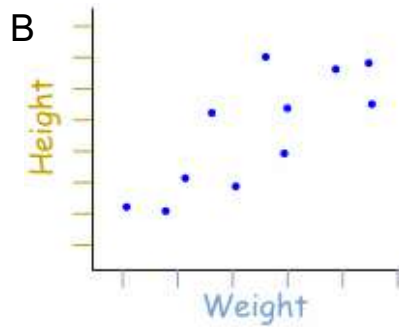
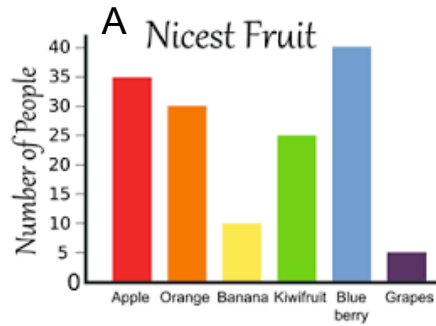
Turn in your Do Now
Stamp sheet to Turn In
Bin on Ms. Logan's
Desk.

Then get a Dimensional
Analysis Check In from
Ms. Logan

Multi-Step

A large, empty rectangular box with a thin black border, occupying the lower two-thirds of the page. It is intended for a multi-step process or diagram.

Phy Ess Do Now



1) Match the LETTER of the graph of the graphs on the left...

Scatter Plot, Line Graph, Pie Chart, Bar Graph

2) Match the definition to each graph on the left...

- a) Shows percents or fractions
- b) Shows data to compare to others
- c) Points connected to show a line and trend
- d) Shows how one variable is affected by another

Graphing Learning Stations

- Complete in your notebook
- Label each Station before you start
- 6 Stations- about 5 minutes each
- ONLY WRITE YOUR ANSWERS
- 2 sets of each station in the room

Phy Ess Do Now

Time	# of Tweets
6:00am	89
9:00am	247
12:00pm	299
3:00pm	369
6:00pm	507
9:00pm	690

This data was taken for tweets by Avondale students.

- 1) Create a line graph to represent this data. Time is on the x axis and tweets is on the y axis
- 2) What is the independent variable?
- 3) What is the dependent variable?
- 4) As time increases, tweets

_____.

Phys Ess DO NOW

Number of Siblings	Students
0	2
1	11
2	4
3	9
4	1

Ms. Logan surveyed her Hour 2 class about the number of siblings they each have.

- 1) Create a BAR GRAPH that represents the data on the left.
- 2) What is the most common number of siblings?
- 3) What is the least common number of siblings?
- 4) Why is it easier to examine this data when it is on a bar graph _____ rather than in a chart?

Class Data Table

[illegible]

Phy Ess Do Now

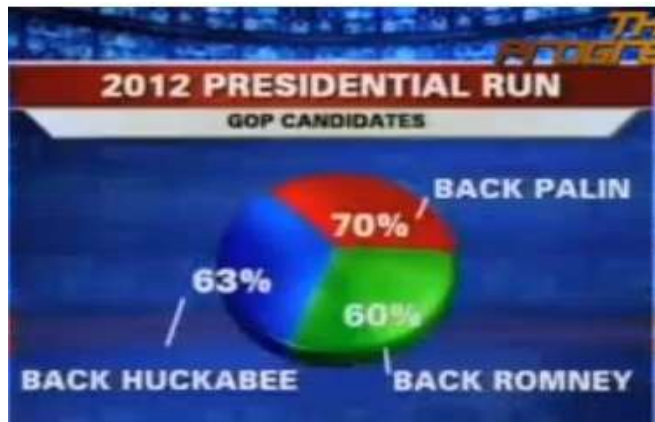
Use your M&M lab from yesterday.

- 1) What group had the most M&Ms?
- 2) What group had the least M&Ms?
- 3) Did your hypothesis match your results? Why or why not?
- 4) What additional information would you have needed to make a better hypothesis?

Phys Ess Do Now

What is wrong with each graph?

Why is each misleading?



OBAMACARE ENROLLMENT

6,000,000

AS OF
MARCH 27

7,066,000

MARCH 31
GOAL

OBAMACARE ENROLLMENT

6,000,000

AS OF
MARCH 27

7,066,000

MARCH 31
GOAL

Phys Ess Do Now

- 1) A ball is dropped 5 meters. How many feet is it dropped? (1 meters = 3.28 feet).
- 2) I have 60 meters of rope. How many yards do I have? (1 yard = 0.9144 meters)
- 3) The average teen should sleep 8 hours or more a night. How many seconds should a teen sleep? (1 hour = 60 minutes, 1 minute = 60 s)

Binder Organization

- 1) Organize binder in order (oldest to newest)
- 2) Write down each element you need to complete on your sticky.
- 3) Complete review questions on Google Classroom after.

NO DO NOW TODAY!

Make sure you have a pencil, calculator and a ruler (if you want for graphing)!

Take 5 minutes to review for the test and ask questions

Turn in your Binder to the front

Complete your test. When done, return it to the Turn In bin.