

TODAY IS WEDNESDAY 8/14

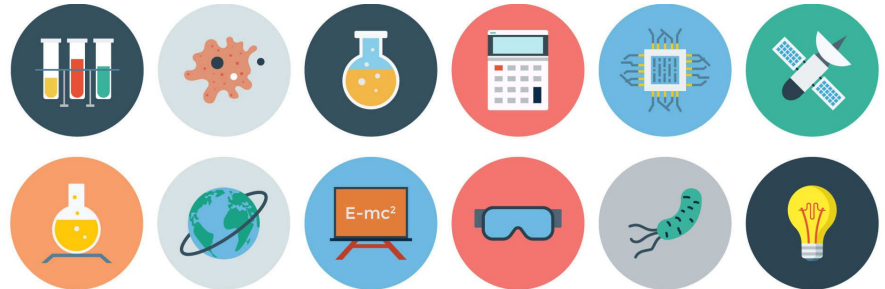
Learning Target:

I can recognize a testable question by identifying dependent and independent variables.

Warmup: Why make at least 3 observations before making 1 inference?

You will need:

- Pencil
- Piece of paper
- Warmup paper (work on Tuesday's)



WHAT MAKES A TESTABLE QUESTION?

Can you decide
if a question is
testable or not?

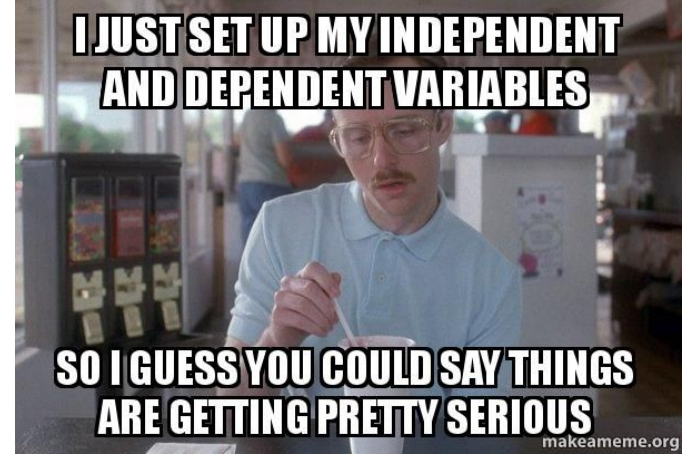
try it!

In your groups:

- Complete testable questions **side A**
- Identify what makes a question testable (what features does it have?)

VARIABLES

- Things in an experiment that *change*.
- The *reason* for the change is what tells you which variable is which.



- **Independent Variable**: The *experimenter* changes this variable to see what will happen to another variable.
- **Dependent Variable**: This variable changes because of the independent variable.

Change in the
independent
variable

Causes
change in the

Dependent
Variable

DRY MIX

A way to remember which variable is which.

D- Dependent Variable

R- Responds

Y- (goes on) the Y axis

M- Manipulated Variable

I- Independent Variable

X- (goes on) the X axis

DRY - dependent, responding, y-axis
MIX - manipulated, independent, x-axis

A SCIENTIST HYPOTHESIZES THAT THE TEMPERATURE AT WHICH AN ALLIGATOR'S EGG IS INCUBATED WILL DETERMINE WHETHER THE ALLIGATOR WILL BE MALE OR FEMALE.

What is the scientist changing?

The temperature the Alligator's egg is incubated at.

They are changing it to see what will happen to

The alligator's gender

Dependent

Independent

With a partner:

Read through testable questions side B and identify the independent and dependent variables in each one.

PRACTICE

