

Hi!

I'm Kayla



I'm the face behind Bright in the Middle.

I have a passion for all things middle school science and math.

I have a Ph.D. in STEM Education with a focus in science education.

I have experience teaching at the middle school, community college, and university level.

MY HEART LIES IN MIDDLE SCHOOL.

I have a passion for helping middle school math and science teachers engage their students in the classroom using research-based strategies and to make learning exciting for their students.

**Want to learn how to help students retain information?
Check this out!**



Hey there!

I truly hope that you and your students enjoy this free word wall for your scientific inquiry unit! Did you know that word walls are great for:

- recalling new and complex words
- constant access to important vocabulary
- promoting independence in building vocabulary



and SO MUCH MORE!

I personally like a lot of **color** that makes word walls attractive for students to look at and will grab their attention.

Please let me know if you have any questions!

Kayla
Bright in the Middle



Scientific Inquiry

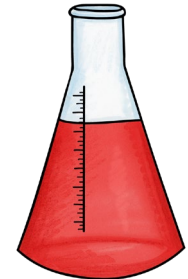
hypothesis



If... Then...

independent variable

something that is changed in
the experiment



something
that
responds to
the
independent
variable

dependent variable



group not
changed in the
experiment
“baseline”

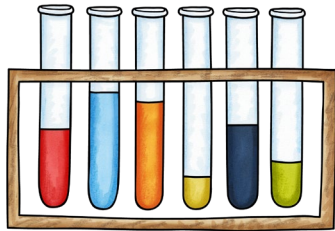
control group





testable

capable
of being
tested

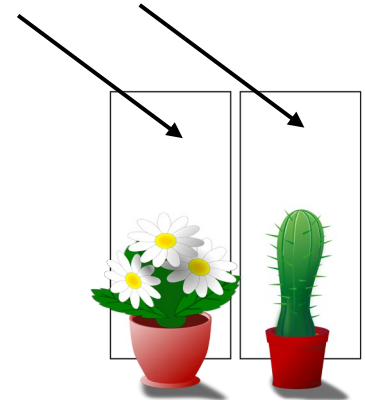


**controlled
experiment**

tests a
single
variable
at a
time

stays the
SAME in an
experiment

constant



experiment

a
scientific
procedure
to test a
hypothesis

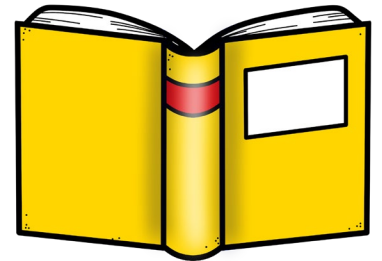
**expression
to find out
information**

question



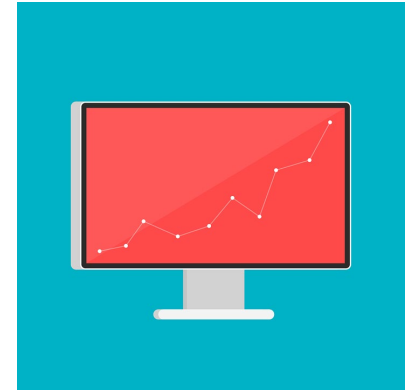
**detailed
study
looking into
a specific
problem or
concern**

research



outcome of
an
experiment

results



to break
apart
information

analyze



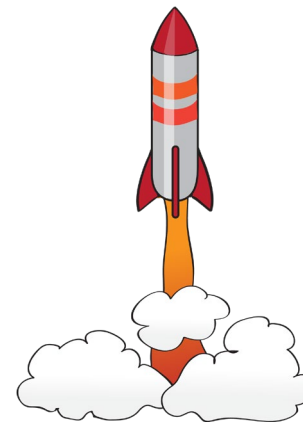
THEORY

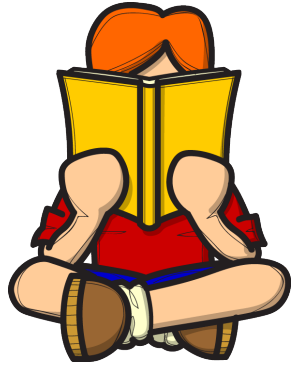
scientific theory

well-tested
hypothesis
to explain
some
phenomena

statement,
based on
repeated
experiments,
that always
appears to be
true

scientific law





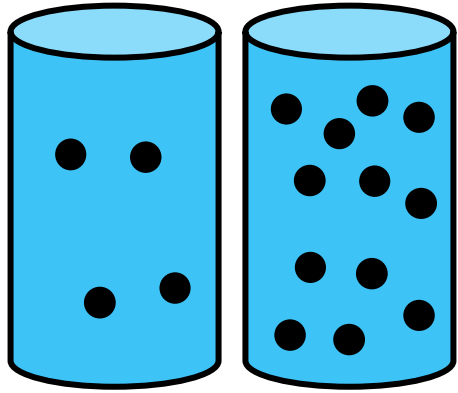
scientific literacy

understanding
of scientific
concepts and
processes



volume

the amount
of space
an object
takes up

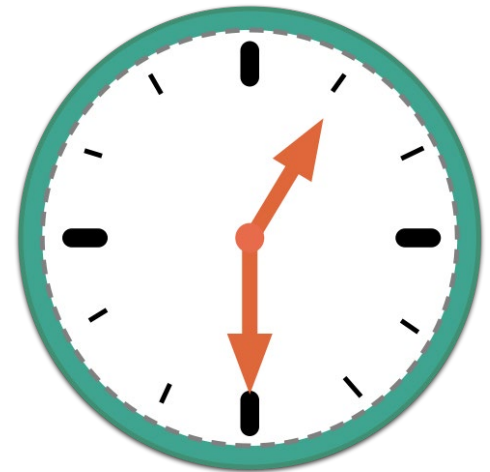


density

the amount
of mass in
a given
space

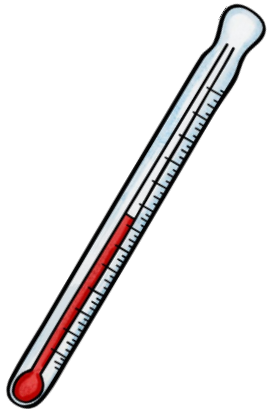
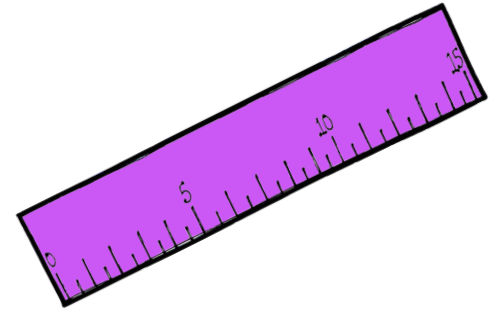
measurable
period

time



measure
of
distance

length

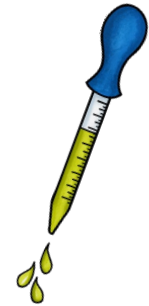


temperature

measure
of
hotness
or
coldness

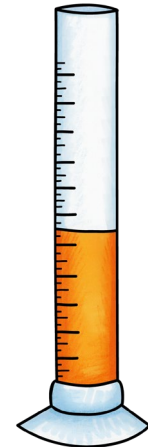
**manipulated
variable**

**independent
variable**



**responding
variable**

**dependent
variable**





scientific method

QUESTION
RESEARCH
HYPOTHESIS
EXPERIMENT
CONCLUSION
RESULTS

act of
noticing or
perceiving

observation



Kilo-

Centi-

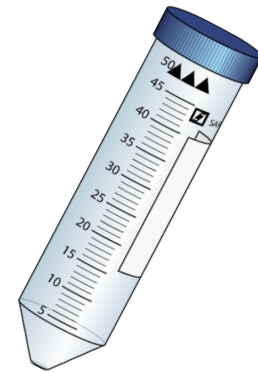
Milli-

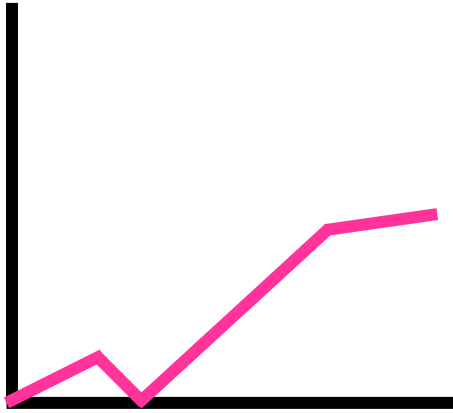
metric prefixes

**precedes
basic
units**

**decimal-based
system
of
measurement**

metric system





data

information
gathered by
observation,
measurement,
or questioning

$(-5, 3)$

coordinate

(x, y)

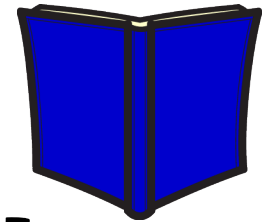


conclusion

a
reasoned
inference

communicating

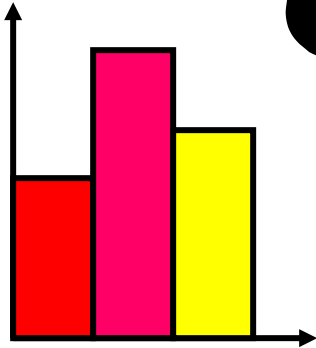
sharing results





**qualitative
data**

**descriptive
data**

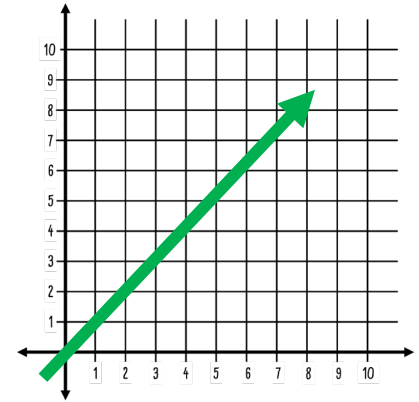


**quantitative
data**

**statistical
data**

diagraming
data

graphing

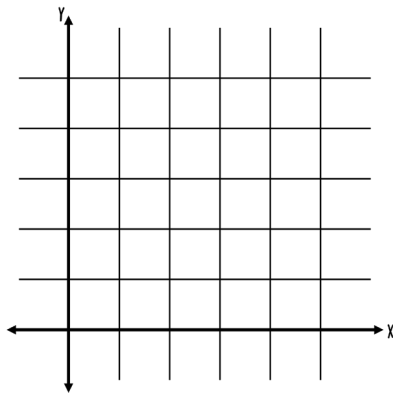


horizontal

runs left to right

“up-down”
direction

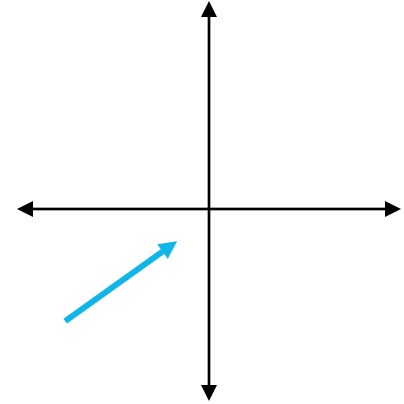
vertical



axis

The x and y
axes run
through
zero.

(0,0) origin



the use
of
science
to solve
problems

technology



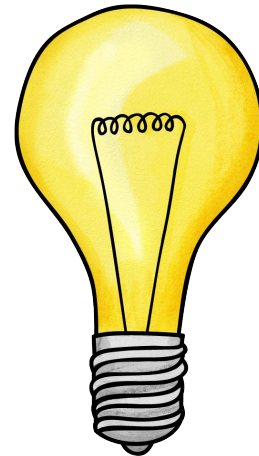
original
model

prototype

PROTOTYPE

gives the
inventor the
right to be the
only one
allowed to
make or use
invention

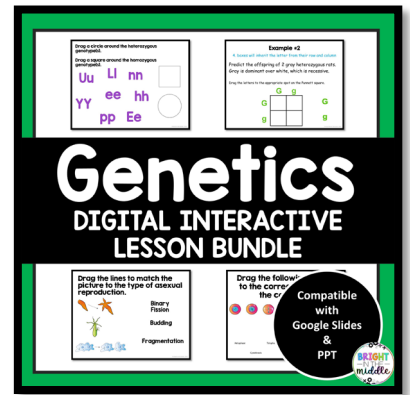
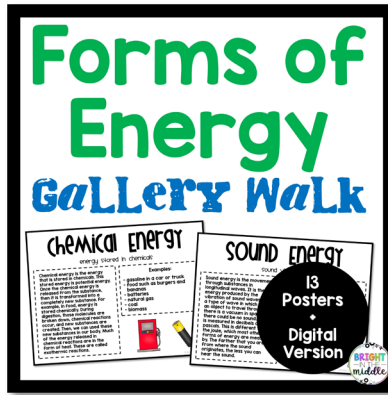
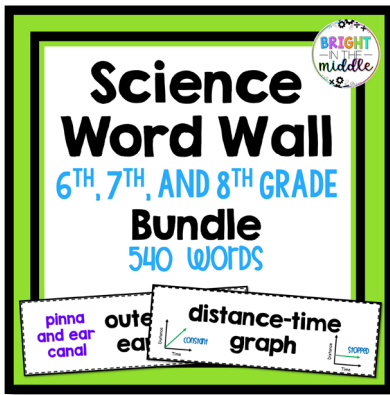
patent



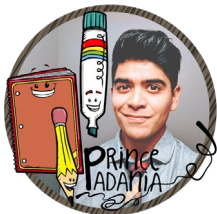
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