

Vocab Only

NGSS
aligned

Motion and Matter

For **FOSS** Science Kits
Vocabulary Cards **ONLY!**



chalk

one form of
material calcium
carbonate



chemical reaction

an interaction between two
materials that produces one or
more new materials that have
different properties than the
starting materials



cloudy

not clear



Investigation 4 Words

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vocabulary:

Investigation 1

attract	observe
balanced	pattern
change of motion	practice
data	predict
direction	prediction
evidence	pull
force	push
gravity	repel
magnet	science practices
magnetic field	strength
magnetic force	unbalanced
magnetism	
model	
motion	

Investigation 3

bearing
centimeter
constraint
criterion
engineer
meter
metric system
solution
standard unit
start position

Investigation 2

axis
axle
friction
outcome
pattern of motion
ramp
rotate
shaft
slope
standard
system
top
twirly bird
variable
wheel

Investigation 4

baking soda
calcium carbonate
carbon dioxide
chalk
chemical reaction
cloudy
conservation of mass
dissolve
mixture
salt
solution
suspend
transparent
vinegar

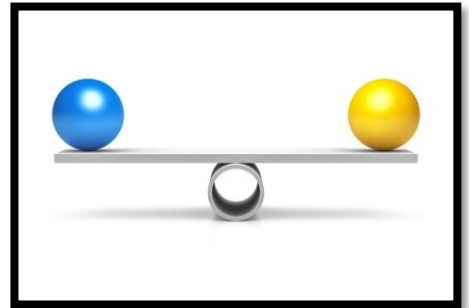
attract

to pull towards



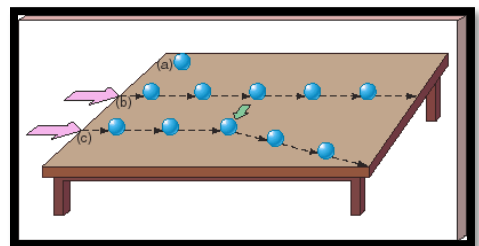
balanced

to be in a stable
position



change of motion




caused when forces
(pushes or pulls) are
unbalanced



Investigation 1 Words

data

information collected
and recorded as a
result of observation

Favorite Pets		
Pet	Tally Marks	Number
		10
		4
	I	6

direction

the path on which
something is moving or
pointing



evidence

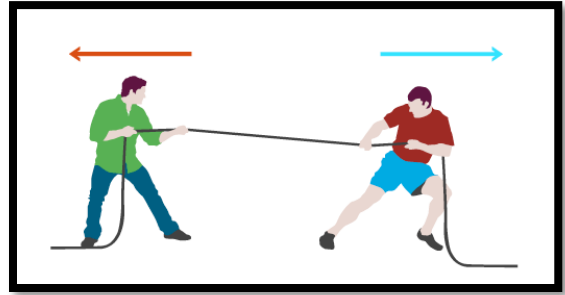
data used to
support claims



Investigation 1 Words

force

a push or a pull



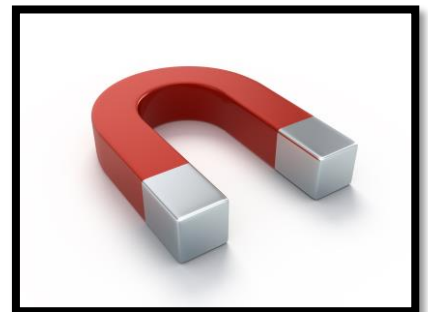
gravity

a force that pulls
objects toward each
other



magnet

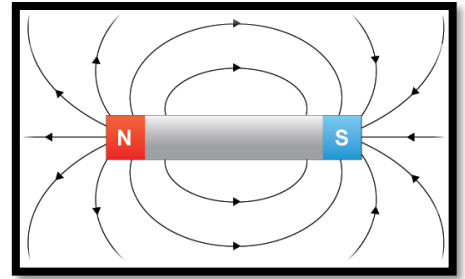
an object that sticks
to iron or steel



Investigation 1 Words

magnetic field

an invisible field
around a
magnet



magnetic force

the force produced by a
magnetic field



magnetism

a force that attracts
iron and steel



Investigation 1 Words

model

an explanation or representation of an object, system, or process that cannot easily be studied



motion

the act of moving



observe

to watch and study



Investigation 1 Words

pattern

a consistent and repeating combination of qualities or behaviors



practice

to do something repeatedly in order to become better at it



predict

to estimate a future even based on data or experience



Investigation 1 Words

pull

when you make things
move toward you



prediction

an estimate of a future
even based on data or
experience



push

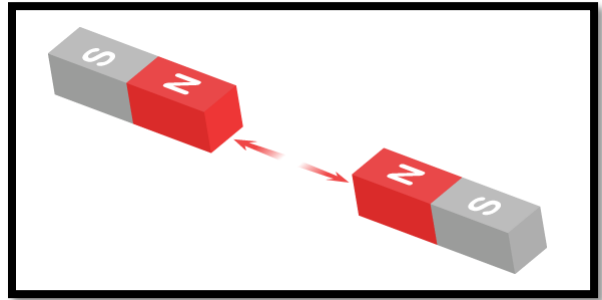
when you make
things move away
from you



Investigation 1 Words

repel

to push
away from



science practices

guidelines used when conducting an investigation to collect data to reveal a pattern and make a prediction

strength

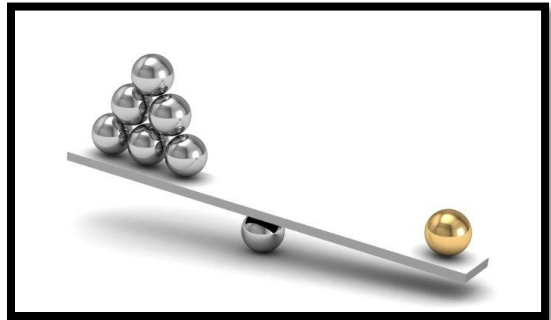
the quality of being
strong



Investigation 1 Words

unbalanced

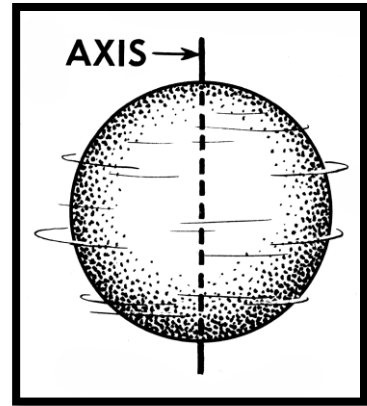
to be in an
unstable
position



Investigation 1 Words

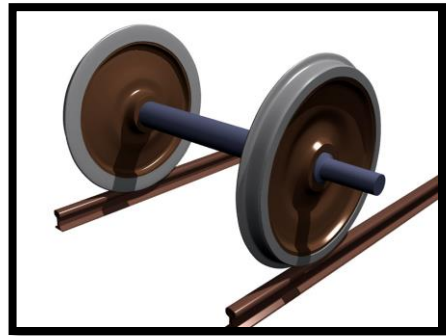
axis

a straight line around which something turns



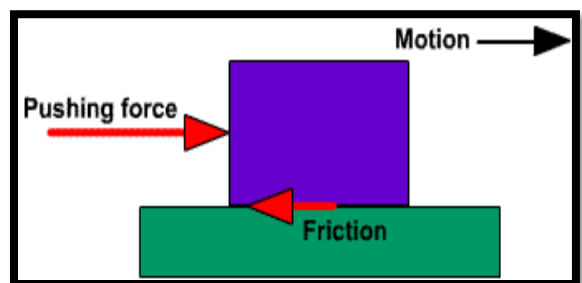
axle

a shaft that runs through the center of a wheel



friction

a force between objects that are touching each other that opposes their motion, slowing them down



Investigation 2 Words

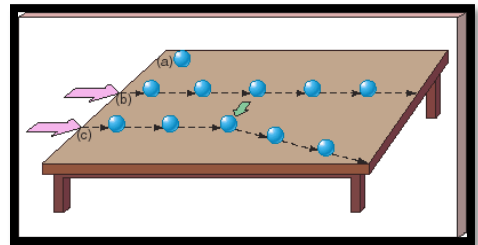
outcome

result



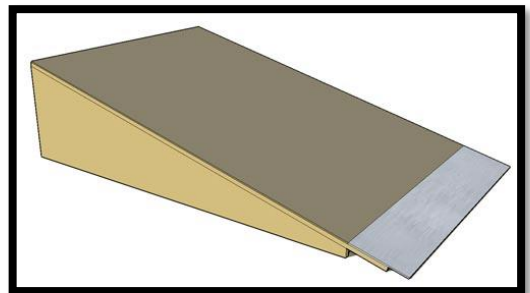
pattern of motion

the manner in which
objects move due to
their structure



ramp

an object that
has a slope



Investigation 2 Words

rotate

to turn or spin



shaft

a long, thin structure
that can be used as an
axis or axle



slope

a surface that is
higher on one end
than the other



Investigation 2 Words

standard

a model established to compare the effect of changing a variable in an experiment

system

two more objects that work together in a meaningful way



top

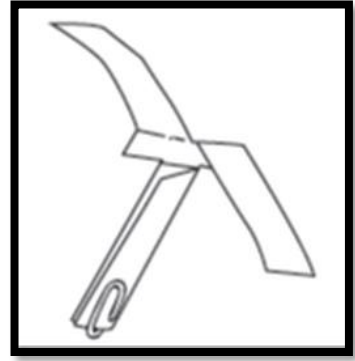
a toy that spins



Investigation 2 Words

twirly bird

a simple winged system
that spins when it
interacts with air



variable

anything you can change
in an experiment that
might affect the outcome



wheel

a circular object that revolves on an axle
and is fixed below a vehicle or other
object to enable it to move easily over the
ground; can fall over when standing alone
or not on an axle



Investigation 2 Words

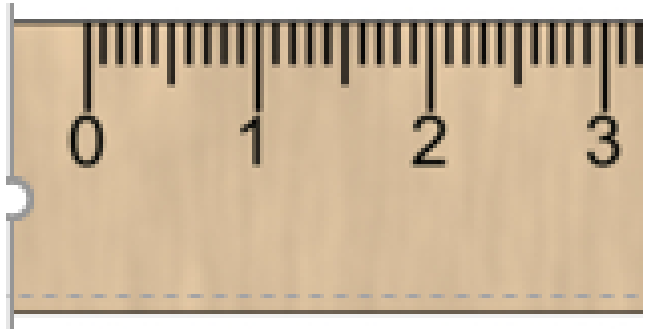
bearing

a part in a machine that supports or guides a rotating part



centimeter

one 100th
of a meter



constraint

a restriction or
limitation



Investigation 3 Words

criterion

a rule for evaluating or testing something



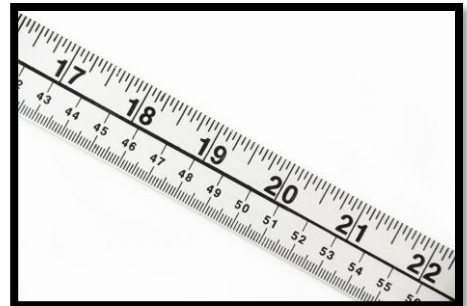
engineer

a scientist who designs ways to accomplish a goal or solve a problem



meter

the basic unit of distance or length in the metric system



Investigation 3 Words

metric system

a measuring
system based on
multiples of 10

1 centimeter = 10 millimeters
10 centimeters = 1 decimeter
100 centimeters = 1 meter
10 decimeters = 1 meter
1,000 meters = 1 kilometer

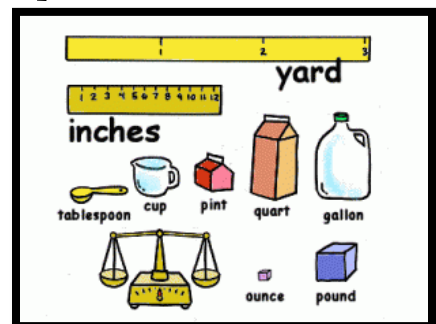
solution

the act of solving a
problem



standard unit

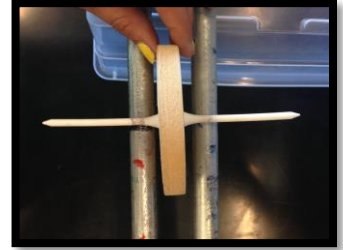
a unit that never
changes



Investigation 3 Words

start position

where an object begins
its descent



Investigation 3 Words

baking soda

a solid material in the form of a powder that undergoes a chemical reaction when combined with vinegar



calcium carbonate

a solid material;
powdered chalk



carbon dioxide

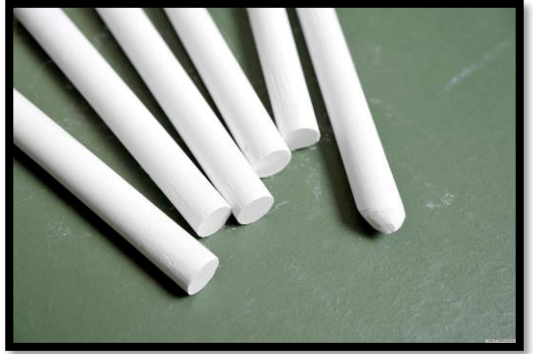
a gas made of
carbon and oxygen



Investigation 4 Words

chalk

one form of
material calcium
carbonate



chemical reaction

an interaction between two
materials that produces one or
more new materials that have
different properties than the
starting materials



cloudy

not clear



Investigation 4 Words

conservation of mass

the concept that no mass is lost or gained when mixing and separating materials

dissolve

to mix a material uniformly into another



mixture

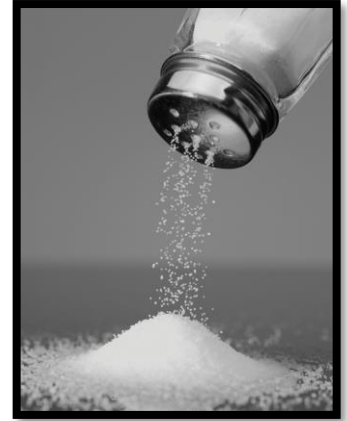
two or more materials together



Investigation 4 Words

salt

a solid white material that dissolves in water; also known as sodium chloride



solution

mixing 2 materials together to form another, like salt and water



suspend

to hang in a liquid or a gas



Investigation 4 Words

transparent

clear, see through



vinegar

a liquid substance that
undergoes a chemical
reaction when combined
with baking soda



Investigation 4 Words

Many Thanks:

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