

# *absorb*

when a liquid soaks  
into a material



# *bead*

a dome-shaped  
drop of water



# *bead up*

when water drops, or  
beads, sit on top of a  
waterproof surface



## Investigation 1 Words

# *direction*

the course or line along which something move, faces, lies or points



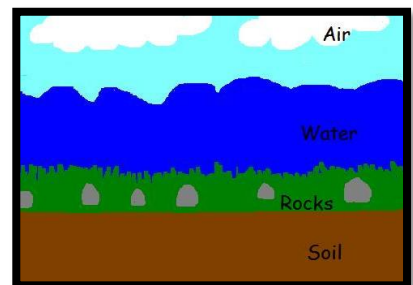
# *dome*

the shape a drop of water takes when it is on a flat surface



# *Earth material*

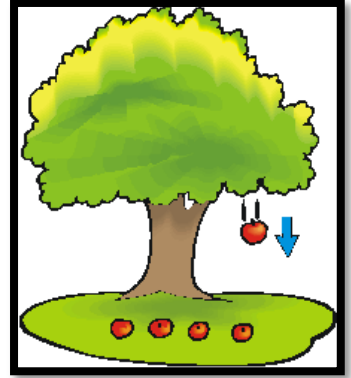
any substance that makes up or comes from the Earth



## **Investigation 1 Words**

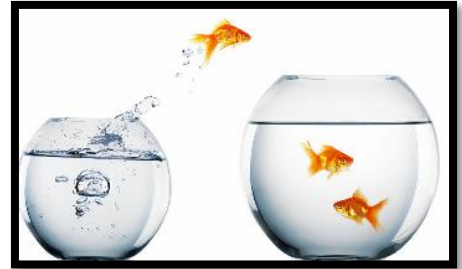
# *gravity*

the natural force that  
pulls objects toward  
each other



# *move*

to change place or  
direction; to put in  
motion



# *natural material*

any material that makes  
up or comes from the  
earth; earth material



## Investigation 1 Words

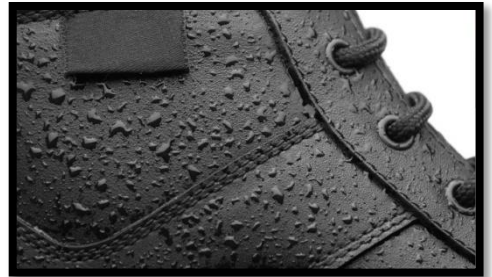
# *relationship*

a connection or  
association



# *repel*

when a liquid does  
not soak into a  
material



# *slope*

a slanted or tilted  
surface



## **Investigation 1 Words**

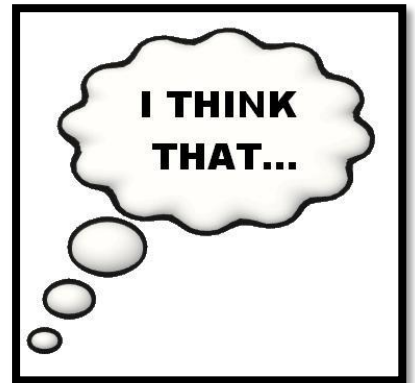
# *surface*

the outside of an  
object



# *opinion*

a claim based on belief,  
not on scientific data  
or observations



# *water proof*

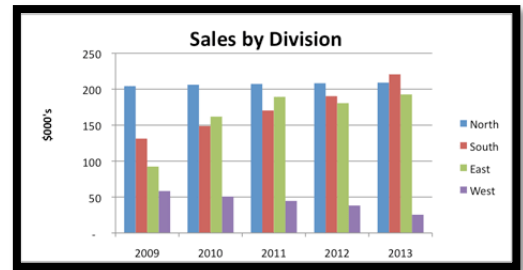
a nonporous or  
nonabsorbent surface on  
which water will bead up  
and flow off



## Investigation 1 Words

# *data*

information  
collected during  
an investigation



# *evidence*

data used to  
support claims



# *interact*

to have an effect  
on one another



## Investigation 1 Words

# *observation*

information  
obtained through  
your senses



# *hot*

having a high  
temperature, hot  
water is less dense



## Investigation 1/2 Words



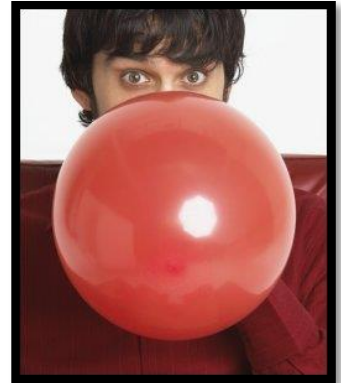
# *contract*

to get smaller; to  
take up less space



# *expand*

to get bigger; to  
take up more space



# *float*

to stay on the surface of  
water as a result of being  
less dense than water



## Investigation 2 Words



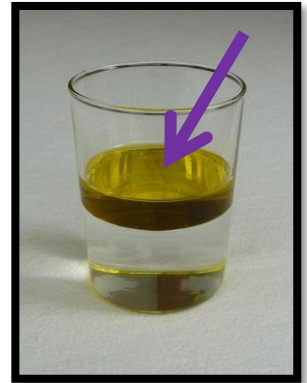
# *freeze*

to change from a liquid to a solid as a result of cooling



# *less dense*

when an object floats in water, it is less dense than the water



# *liquid*

a state of matter with no definite shape but with a definite volume



## Investigation 2 Words

# *mass*

the amount of  
material in  
something



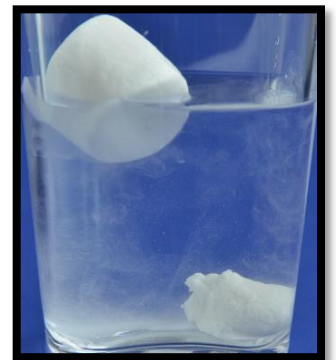
# *melt*

to change from a solid  
to a liquid state as a  
result of warming



# *more dense*

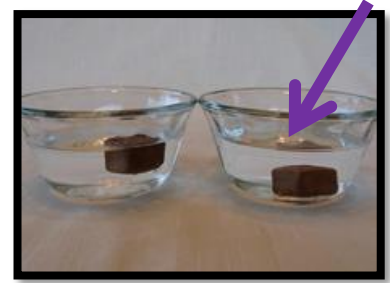
when an object has more  
mass for its size than  
another object



## Investigation 2 Words

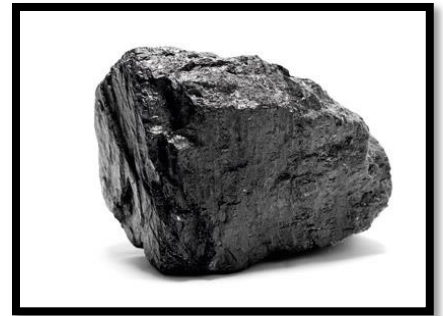
# *sink*

to go under water as a result of being denser than the water



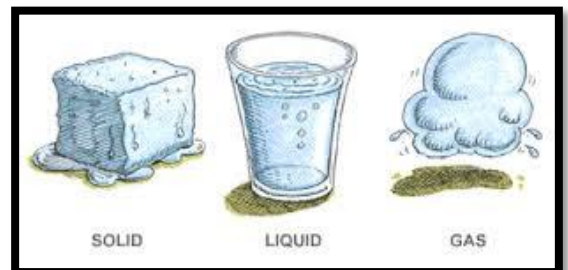
# *solid*

a state of matter that has a definite shape and volume



# *state*

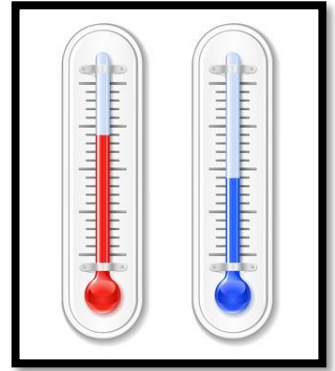
a kind or form of matter, three common states of matter are solid, liquid, and gas



## Investigation 2 Words

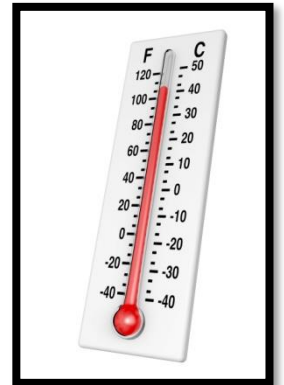
# *temperature*

a description of  
how hot or cold  
something is



# *thermometer*

a tool used to  
measure  
temperature



# *volume*

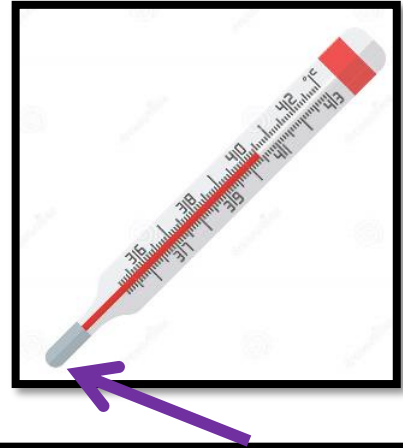
three-dimensional  
space



## **Investigation 2 Words**

# *bulb*

the round end of  
a thermometer



# *cold*

having a low  
temperature, cold  
water is more dense



# *degrees Celsius*

the basic unit of  
temperature in the  
metric system

°C

## Investigation 2 Words

# *condensation*

the process by which  
water vapor changes  
into liquid water,  
usually on a surface



# *evaporation*

the process by which  
liquid water changes  
into water vapor



# *gas*

a state of matter with  
no definite shape or  
volume; usually invisible



## **Investigation 3 Words**

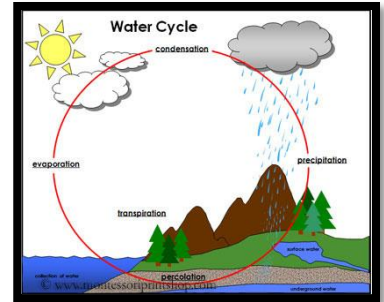
# *surface area*

the area of liquid  
exposed to or  
touching the air



# *water cycle*

the repeating sequence of  
condensation and evaporation  
of water on Earth, causing  
clouds and rain



# *water vapor*

the gaseous state  
of water



## **Investigation 3 Words**



# *compass*

a magnetic needle in a case  
that indicates direction;  
compass needles on Earth  
point north



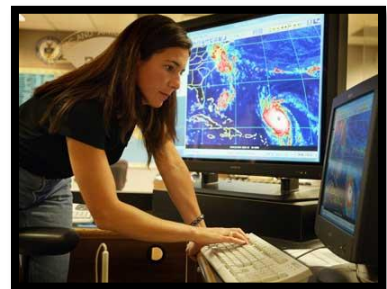
# *forecast*

to predict future  
events or condition,  
such as weather



# *meteorologist*

a scientist who  
studies the  
weather



## Investigation 3 Words

# *precipitation*

rain, snow, sleet,  
or hail that falls to  
the ground



# *rain gauge*

an instrument that  
measures how much rain  
has fallen in a given  
amount of time



# *weather*

the condition of  
the air around us



## **Investigation 3 Words**

# *meteorology*

the study of  
weather



# *wind vane*

a weather instrument  
that measures wind  
direction



## Investigation 3 Words

# *blizzard*

a severe storm with low temperatures, strong winds, and large quantities of snow



# *climate*

the average or typical weather condition in a region of the world



# *climatologist*

scientists who study climate



## **Investigation 4 Words**

# *drought*

a less-than normal  
amount of rain or snow  
over a period of time



# *embankment*

a raised bank or wall  
that is built to carry a  
roadway or hold back  
water



# *flood*

a large amount of  
water flowing over  
land that is usually dry



## **Investigation 4 Words**



# *flood plain*

the flat, low land  
area next to a river  
that may flood



# *hailstorm*

precipitation in the  
form of small balls or  
pellets of ice



# *hurricane*

a severe tropical  
storm that produces  
high winds



## **Investigation 4 Words**

# *lightning*

the flashes of light  
that are produced in  
the sky during a storm



# *monsoon*

a wind system in  
Southeast Asia that  
brings heavy rain during  
certain seasons



# *natural hazard*

a threat of a naturally  
occurring event that will  
have a negative effect on  
people or the environment



## **Investigation 4 Words**



# *season*

a time of year that  
brings predictable  
weather conditions



# *sluice gate*

a wood or metal barrier sliding in  
grooves that are set in the sides  
of a waterway; sluice gates can  
control water levels and flow  
rates in rivers and canals



# *tornado*

a rapidly rotating column  
of air that extends from a  
thunderstorm to the  
ground



## Investigation 4 Words

# *typical*

the average weather  
that is expected in a  
given area



# *wetland*

an area of land close  
to a large body of  
water



## Investigation 4 Words

# *blade*

the part of a  
waterwheel that the  
water pushes as it  
moves downward



# *drainage*

the movement of  
water through soil



# *gravel*

rocks that are smaller  
than pebbles and drain  
water quickly



## Investigation 5 Words

# *retain*

to hold or  
continue to hold



# *shaft*

the part of a  
waterwheel that the  
blades turn



# *soil*

a mixture of humus,  
sand, silt, clay,  
gravel, or pebbles



## Investigation 5 Words

# ***natural resource***

a material such as soil or water that comes from the natural environment



# ***nonrenewable resource***

a natural resource that cannot be replaced if it is used up



# ***renewable resource***

a natural resource that can replace or replenish itself naturally over time



## **Investigation 5 Words**



# *water retention*

the ability to soak up and hold water



# *waterwheel*

a wheel turned by the force of moving water



# *constraint*

the limitations that must be taken into account when working in the classroom



## **Investigation 5 Words**

# *criteria*

a need or a  
requirement



# *criterion*

a plural version of  
criteria



# *energy*

the ability to make things  
happen; energy can take a  
number of forms such as  
heat and light



## Investigation 5 Words



# *humus*

bits of dead plant  
and animal parts  
in the soil



# *load*

the weight that is  
carried or supported  
by something



# *system*

a collection of  
interacting parts that  
work together to  
produce a function



## Investigation 5 Words