

# picture

## atmosphere

2



the envelope of gases that surround the Earth

# picture

## erosion

10



**process by which water, ice, wind, or gravity weathers rock and soil**

# picture

## convergent boundary

1

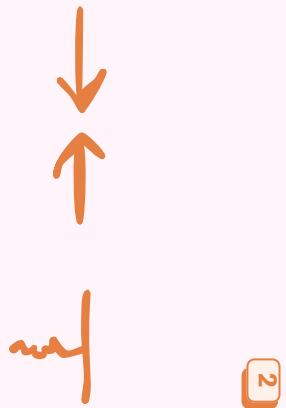


plate boundary type where two plates move towards each other

# picture

## hot spot

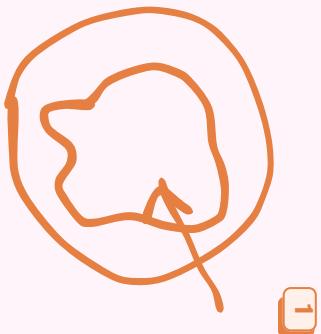


**area where magma from  
deep within the mantle  
melts through the crust**

# picture

Pangaea

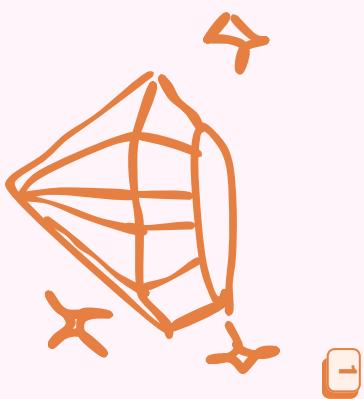
it!



name of the single landmass that gave rise to today's continents

# picture

luster



the way a mineral reflects light from its surface

# picture

stress

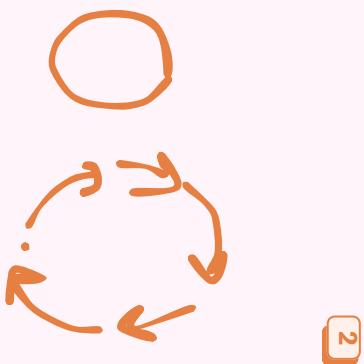
it!



a force that acts on rock to change its shape or volume

# picture

rock cycle

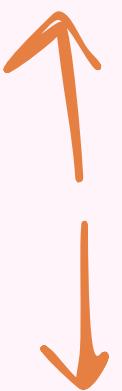


series of processes on the surface + inside Earth that slowly changes rocks from one kind to another

it!

# picture

1



tension

it!

stress that stretches rock so  
that it becomes thinner in  
the middle

# picture

1



weathering

it!

chemical and physical  
processes that break down  
rock and other substances

# picture

1



cinder cone

it!

cone-shaped hill made of  
volcanic ash + cinders  
+ bombs piled up around a  
volcano's opening

# picture

1



batholith

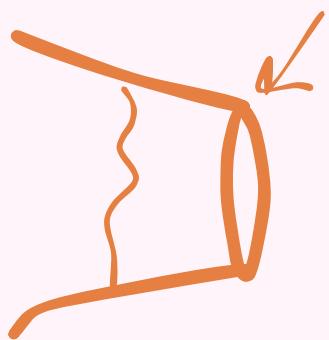
it!

mass of rock formed when  
a large body of magma  
cools inside the crust

# picture

caldera

it!

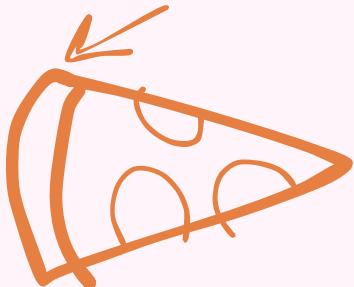


1

# picture

crust

it!



1

stress that stretches rock so  
that it becomes thinner in  
the middle

# picture

mantle

it!

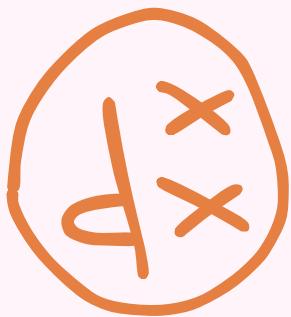


1

# picture

extinct

it!



1

used to describe a volcano  
that is no longer active and  
will not likely erupt again

# picture

it!

# picture

plateau



1

a large landform that has high elevation and a roughly level surface

pressure

it!

force pushing on a surface divided by the area of that surface



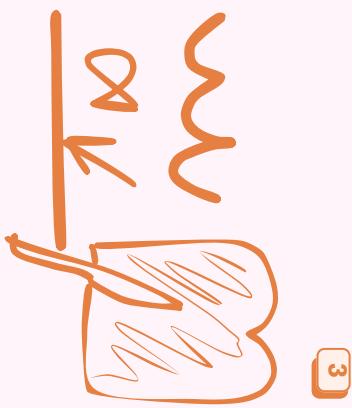
1

# picture

it!

# picture

sea floor spreading



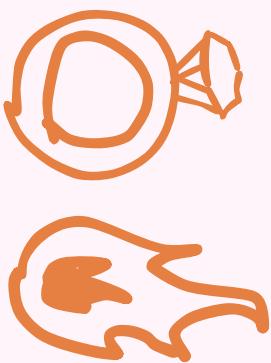
3

process in which molten material adds new oceanic crust to the ocean floor

ring of fire

it!

major belt of volcanoes that rims the Pacific Ocean



3

# picture

active transport

it!

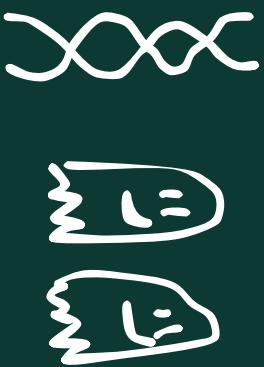


2

# picture

DNA replication

it!



2

# picture

cytoplasm

it!



1

# picture

fertilization

it!



1

the process in sexual reproduction in which an egg cell and sperm cell join to form a new cell

thick fluid region of a cell located inside the cell membrane

# picture

mutation

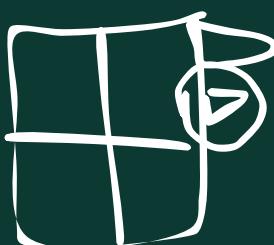
it!



2

# picture

recessive allele



2

# picture

probability

it!

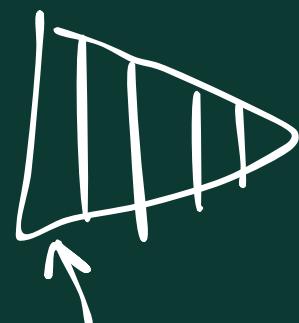


1

# picture

species

it!



1

a group of similar organisms that can mate with each other and produce offspring that can do the same

it!

an allele that is hidden whenever the dominant allele is present

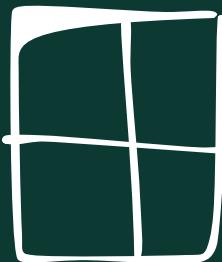
any change in the DNA of a gene or a chromosome

a number that describes how likely it is that a particular event will occur

# picture

Punnett square

it!

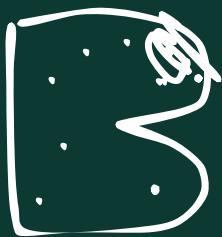


2

# picture

fermentation

it!



1

# picture

chlorophyll

it!



2

# picture

autotroph

it!



1

an organism that can capture energy from sunlight and use it to produce its own food

# picture

enzyme

it!



2

# picture

gradualism

it!



1

# picture

natural selection

it!



2

# picture

tissue

it!



1

a group of similar cells that perform a specific function

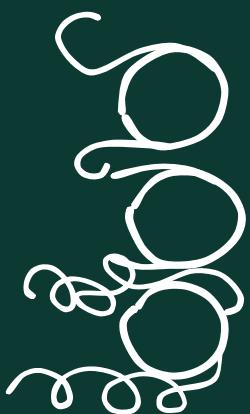
pattern of evolution seen by the slow + steady accumulation of small genetic changes over long periods of time

# picture

trait

it!

a specific characteristic that an organism can pass to its offspring through its genes



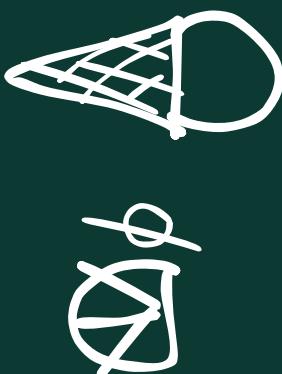
2

# picture

nitrogen bases

it!

a key component of nucleotides; molecules composed of nitrogen and other elements



2

# picture

pedigree

it!

a chart that shows the presence of absence of a trait according to family relationships across generations



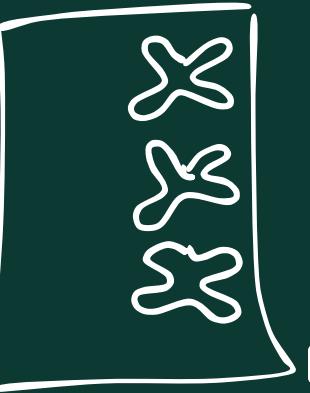
1

# picture

karyotype

it!

a picture of all the human chromosomes in a cell grouped together in pairs and arranged in order of decreasing size



1

# picture

pedigree

it!

a chart that shows the presence of absence of a trait according to family relationships across generations



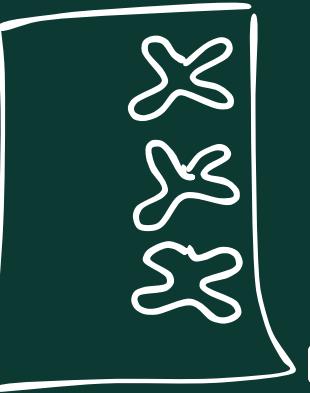
1

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a picture of all the human chromosomes in a cell grouped together in pairs and arranged in order of decreasing size



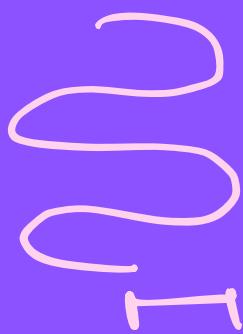
1

picture

1

amplitude

it!



height of a transverse wave  
from center to a crest or  
trough

picture

1

decibel (dB)



unit used to compare the  
loudness of different  
sounds

picture

2

electromagnetic  
waves

it!

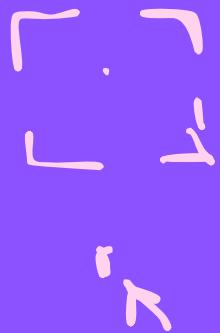


waves that can transfer  
electric and magnetic  
energy through the vacuum  
of space

picture

2

focal point



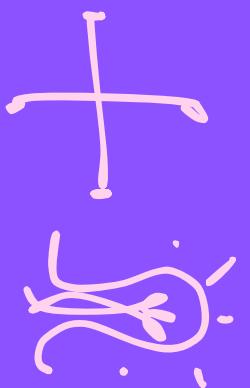
the point at which light rays  
parallel to an optical axis  
meet after being  
reflected/refracted by a  
mirror/lens

it!

# picture

polarized light

it!



2

# picture

iris

it!



1

# picture

reflecting telescope

it!



2

# picture

plane mirror

it!



2

light that has been filtered  
so that its waves are  
parallel to each other

it!

a flat mirror that produces  
an upright virtual image the  
same size as the object

it!

picture

sonar

it!



a system that uses reflected light waves to locate and determine the distance to objects under water

1

picture

cones

it!

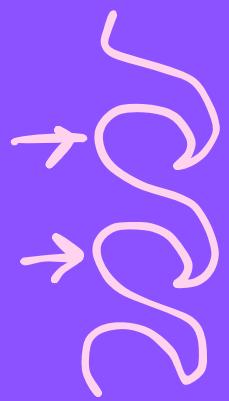


cells in the retina that respond to and detect color

1

picture

trough

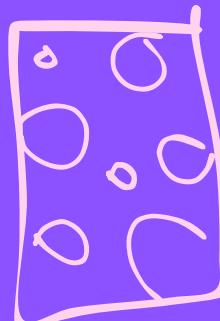


1

it!

the lowest part of a transverse wave

density



1

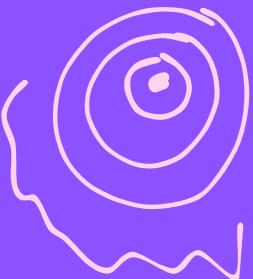
ratio of the mass of a substance to its volume

# picture

it!

# picture

doppler effect

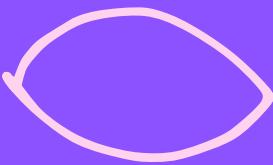


2

convex lens

it!

a lens that is thicker in the center than at the edges



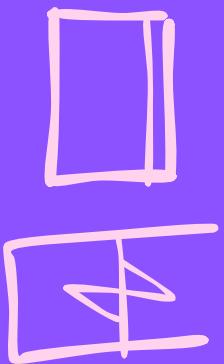
2

# picture

it!

# picture

index of refraction



3

medium

it!

the material through which a wave travels



4

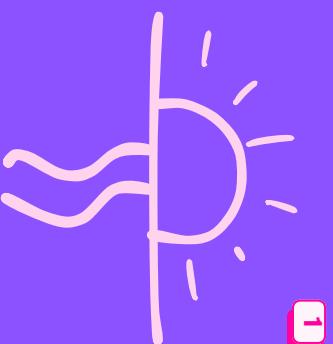
# picture

a measure of the amount a ray of light bends when it passes from one medium to another

# picture

1

mirage



it!

an image of a distant object caused by refraction of light as it travels through varying temperatures of air

# picture

1



overtone

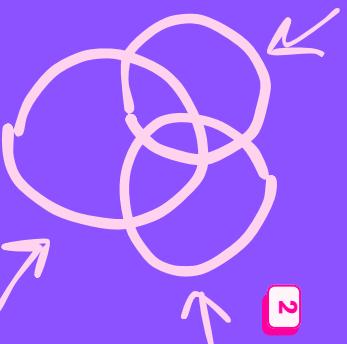
a natural frequency that is a multiple of the fundamental tone's frequency

it!

# picture

2

primary color



it!

for light, this is red, green, and blue; when combined, the resulting color is white.

# picture

1

transluscent

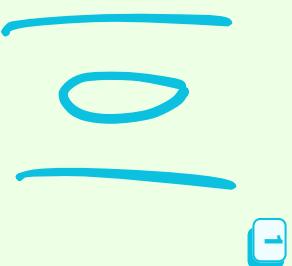


a type of material that scatters light as it passes through

it!

# picture

absolute zero



1

# picture

lowest possible temperature that is theoretically possible

it!

acid



# picture

atomic mass



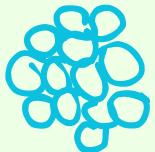
1

# picture

the average mass of all the isotopes of an element

it!

amorphous solid



1

it!

a substance that tastes sour (if edible) and has a pH less than 7

it!

a solid made up of particles that are not arranged in a regular pattern

# picture

1

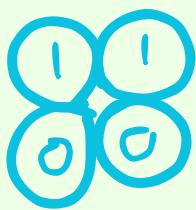
catalyst



# picture

1

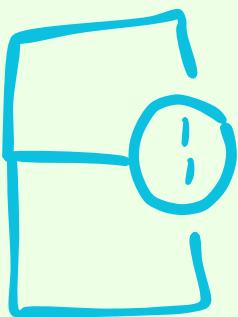
beta particle



# picture

1

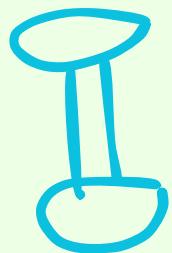
concentration



# picture

1

double bond



# it!

a system that uses reflected light waves to locate and determine the distance to objects under water

# it!

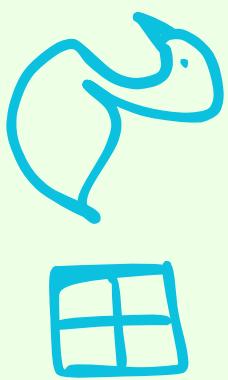
a chemical bond formed when atoms share two pairs of electrons

picture

1

ductile

it!



picture

1

corrosion

it!

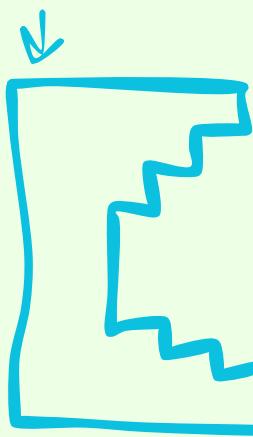


picture

1

group

it!

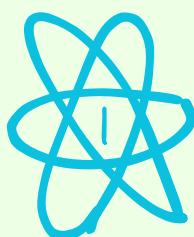


picture

1

electron

it!



tiny negatively charged  
particle moving outside of  
the nucleus of an atom

elements in the same  
vertical column of the  
periodic table

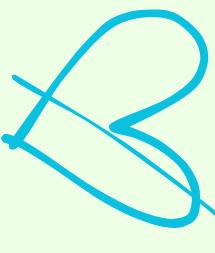
it!

gradual wearing away of a  
metal element due to a  
chemical reaction

corrosion

# picture

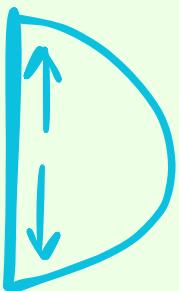
half life



1

# picture

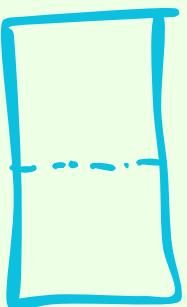
indicator



1

# picture

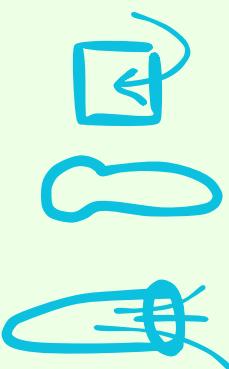
malleable



1

# picture

endothemic reaction



1

# it!

a compound that changes color in the presence of an acid or base

# it!

a reaction that absorbs energy

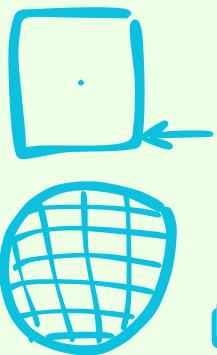
the time it takes for half of the atoms of a radioactive element to decay

# it!

term describing material that can be hammered or rolled into flat sheets

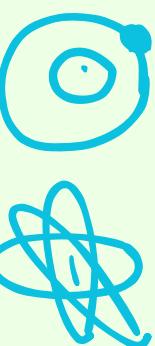
# picture

open system



# picture

valence electron



# picture

saturated solution

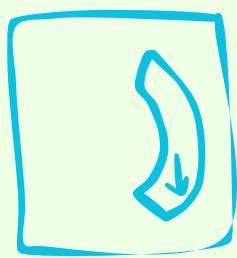


a mixture that contains as much dissolved solute as is possible at a given temperature

it!

# picture

weight



a measure of the force of gravity acting on an object

it!

a system in which matter can enter or escape into the surroundings

it!

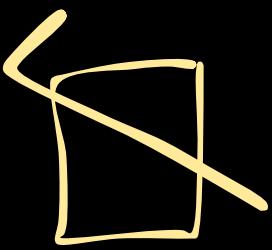
electrons that are in the highest energy level of an atom and that are involved in chemical bonding

it!

# picture

accuracy

it!

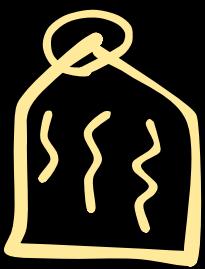


1

# picture

cost

it!



1

a measure of the force of gravity acting on an object

electrons that are in the highest energy level of an atom and that are involved in chemical bonding

# picture

deductive reasoning

it!



1

# picture

cultural bias

it!



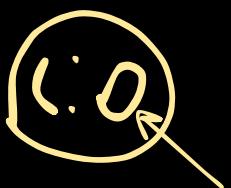
1

electrons that are in the highest energy level of an atom and that are involved in chemical bonding

# picture

brainstorming

it!



# picture

patent

it!



1

# picture

hypothesis

it!

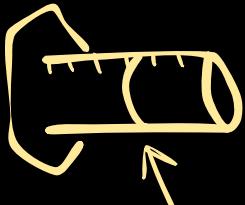


possible explanation for a set of observations or an answer to a scientific question; always testable

# picture

meniscus

it!



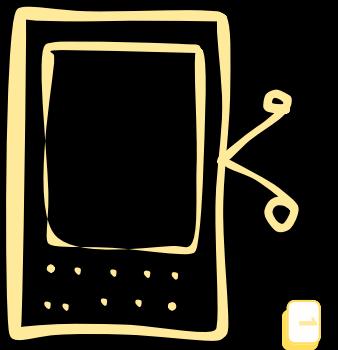
the curved upper surface of a liquid in a column of liquid

1

picture

obsolete

it!



No longer in use

picture

precision

it!

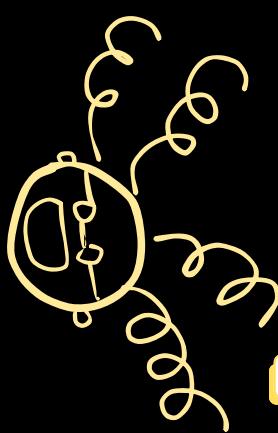


how close a group of measurements are to each other

picture

skepticism

it!

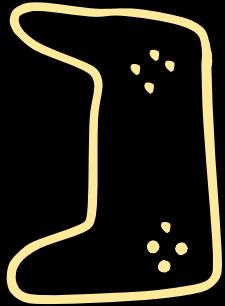


an attitude of doubt

picture

variable

it!



a factor that can change in an experiment

# picture

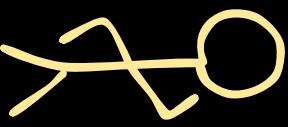
output

it!

# picture

model

it!



1

representation of a complex object or process used to help people understand a concept

1

# picture

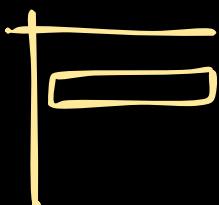
goal

it!

# picture

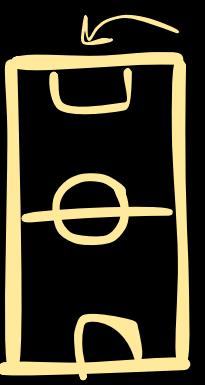
metric system

it!



1

a system of measurement based on the number 10



1

a purpose or objective of a scientific study or experiment

# picture

inductive reasoning

it!



# picture

safety

it!

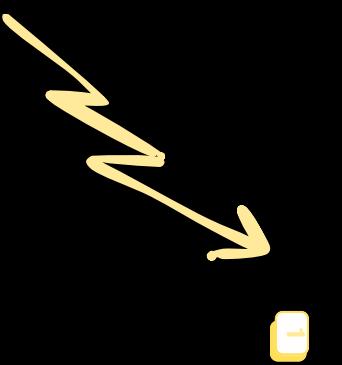


keeping away from danger  
or hazard during  
experimentation

# picture

troubleshooting

it!



# picture

system

it!



a group of related parts  
that work together to  
perform a function or  
produce a result

# picture

using specific observations  
to make generalizations

it!

