

picture

atmosphere

it!



the envelope of gases that surround the Earth

picture

convergent
boundary

it!



plate boundary type where two plates move towards each other

picture

erosion

it!

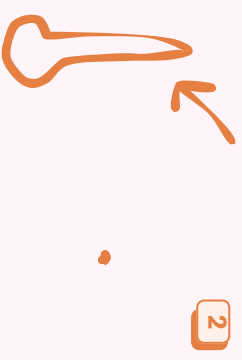


process by which water, ice, wind, or gravity weathers rock and soil

picture

hot spot

it!



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

1

picture

stress

it!



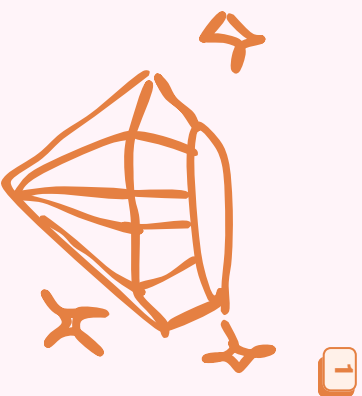
a force that acts on rock to
change its shape or volume

1

picture

luster

it!



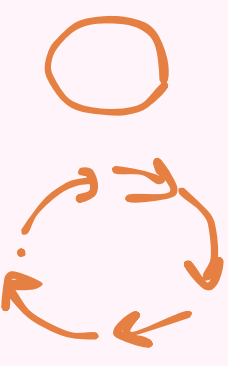
the way a mineral reflects
light from its surface

1

picture

rock cycle

it!



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

2

picture

tension

it!

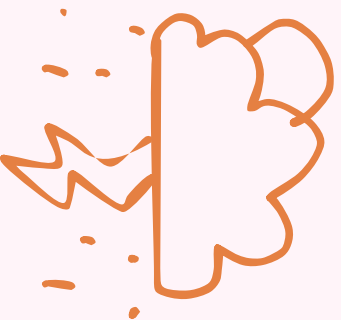


stress that stretches rock so
that it becomes thinner in
the middle

picture

weathering

it!



chemical and physical
processes that break down
rock and other substances

picture

cinder cone

it!

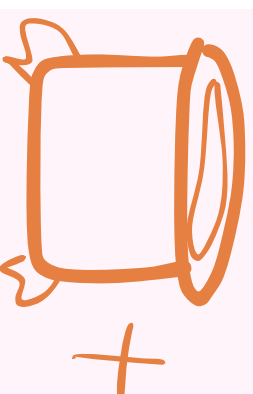


cone-shaped hill made of
volcanic ash + cinders
+ bombs piled up around a
volcano's opening

picture

batholith

it!



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

picture

caldera

it!



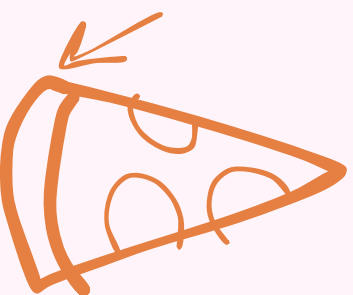
1

large hole at the top of a volcano formed when the roof of a volcano's magma chamber collapses

picture

crust

it!



1

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

picture

mantle

it!



1

layer of hot + solid material between the crust and core of the Earth

picture

extinct

it!



1

used to describe a volcano that is no longer active and will not likely erupt again

picture

pressure

it!

picture

plateau

it!



1

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



1

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

picture

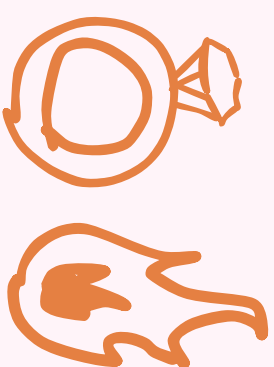
ring of fire

it!

picture

sea floor spreading

it!



3

major belt of volcanos that
rims the Pacific Ocean



3

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

picture

active transport

it!



movement of materials
across a cell membrane
using cellular energy

picture

cytoplasm

it!



thick fluid region of a cell
located inside the cell
membrane

picture

DNA replication

it!



before a cell divides, the
process in which DNA
copies itself

picture

fertilization

it!



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

picture

mutation

it!



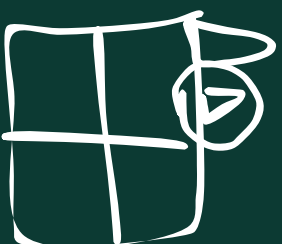
any change in the DNA of a gene or a chromosome



picture

recessive allele

it!



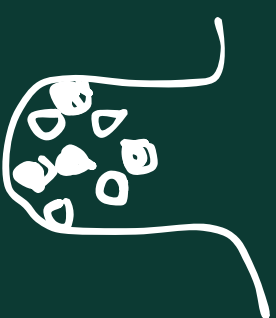
an allele that is hidden whenever the dominant allele is present



picture

probability

it!



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



picture

species

it!



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

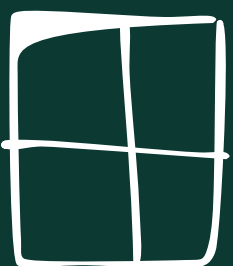


picture

Punnett square

it!

2



a chart showing all the possible combinations of alleles that can result from a genetic cross

2



a green photosynthetic pigment found in the chloroplasts of plant cells

picture

chlorophyll

it!

picture

autotroph

it!

1



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

picture

fermentation

it!

1



process by which cells release energy by breaking down food molecules without using oxygen

picture

enzyme

it!



2

a type of protein that speeds up a chemical reaction in a living thing

picture

natural selection

it!



2

process by which organisms that are best adapted to their environment are likely to survive + reproduce

picture

gradualism

it!



1

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

picture

tissue

it!



1

a group of similar cells that perform a specific function

picture

trait

it!



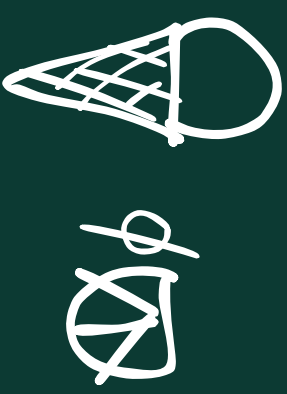
a specific characteristic that an organism can pass to its offspring through its genes

2

picture

nitrogen bases

it!



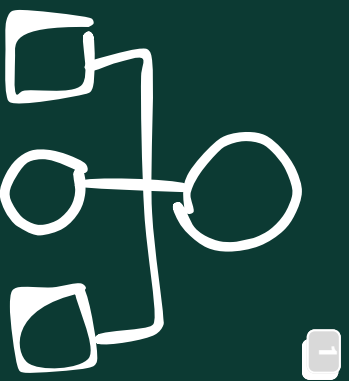
a key component of nucleotides; molecules composed of nitrogen and other elements

2

picture

pedigree

it!



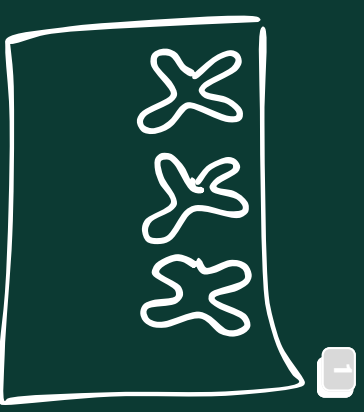
a chart that shows the presence of absence of a trait according to family relationships across generations

1

picture

karyotype

it!



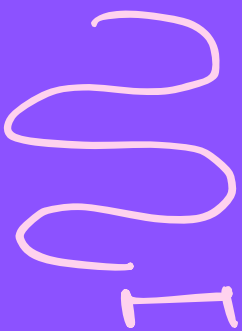
a picture of all the human chromosomes in a cell grouped together in pairs and arranged in order of decreasing size

1

picture

amplitude

it!



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

1

picture

electromagnetic
waves

it!



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

2

picture

decibel (dB)

it!



unit used to compare the
loudness of different
sounds

1

picture

focal point

it!



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

2

picture

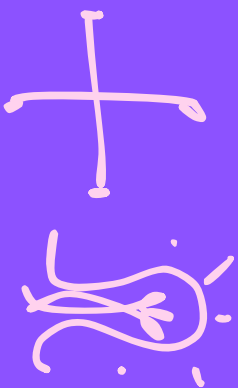
polarized light

it!

picture

iris

it!



2

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



1

ring of muscle that
surrounds the pupil and
regulates the amount of
light entering the eye

picture

plane mirror

it!

picture

reflecting telescope

it!



2

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



2

a telescope that uses a
curved mirror to collect and
focus light

picture

sonar

it!



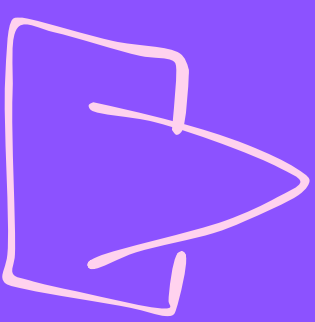
1

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

picture

cones

it!



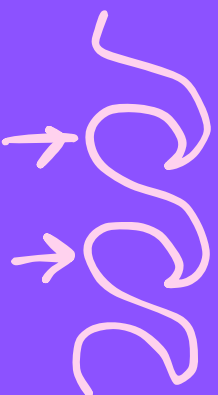
1

cells in the retina that respond to and detect color

picture

trough

it!



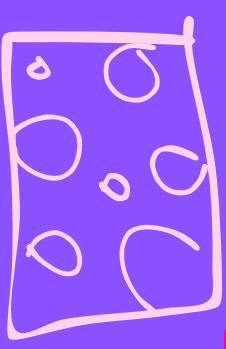
1

the lowest part of a transverse wave

picture

density

it!



1

ratio of the mass of a substance to its volume

picture

convex lens

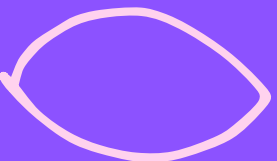
it!

picture

doppler effect

it!

2



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

2



the change in frequency of a wave as its source moves in relation to an absorber

picture

medium

it!

picture

index of refraction

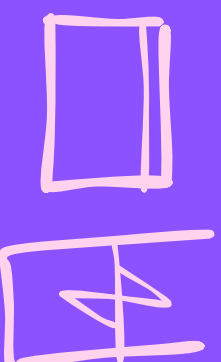
it!

1



the material through which a wave travels

3

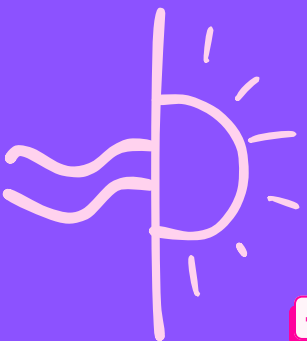


a measure of the amount a ray of light bends when it passes from one medium to another

picture

mirage

it!

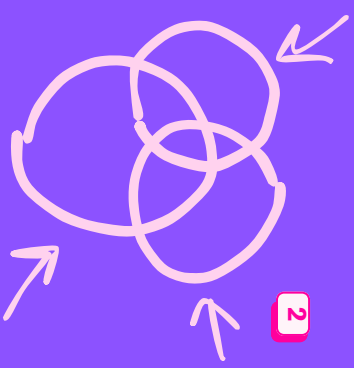


an image of a distant object caused by refraction of light as it travels through varying temperatures of air

picture

primary color

it!



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

picture

overtone

it!



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

picture

translucent

it!



a type of material that scatters light as it passes through

picture

absolute zero

it!

101



lowest possible
temperature that is
theoretically possible

picture

atomic mass

it!



the average mass of all the
isotopes of an element

picture

acid

it!



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

picture

amorphous solid

it!



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

picture

catalyst

it!



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

picture

beta particle

it!

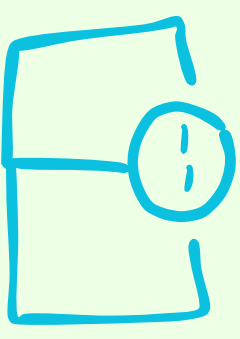


a system that uses reflected light waves to locate and determine the distance to objects under water

picture

concentration

it!



the amount of one material in a certain volume of another material

picture

double bond

it!

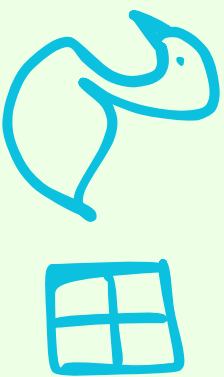


a chemical bond formed when atoms share two pairs of electrons

picture

ductile

it!

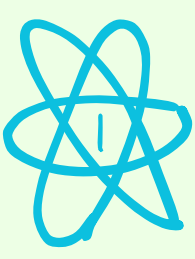


term used to describe a material that can be pulled out into a long wire

picture

electron

it!



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

picture

corrosion

it!

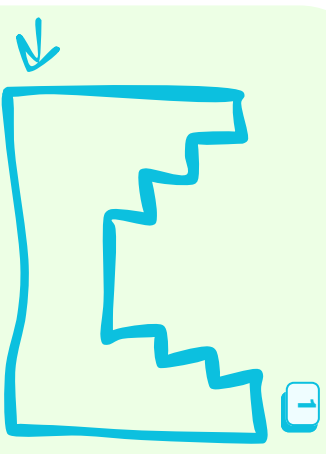


gradual wearing away of a metal element due to a chemical reaction

picture

group

it!



elements in the same vertical column of the periodic table

picture

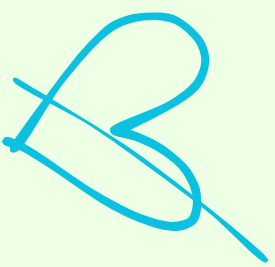
half life

it!

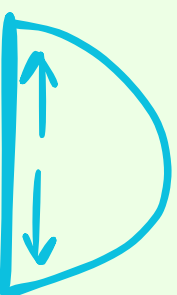
picture

indicator

it!



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



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

picture

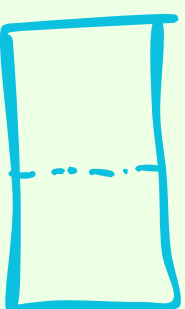
malleable

it!

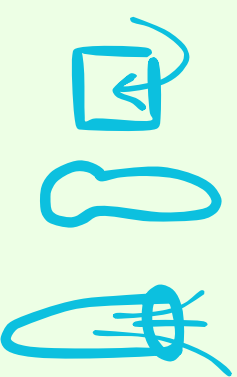
picture

endothermic reaction

it!



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

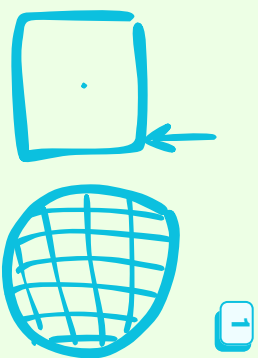


a reaction that absorbs energy

picture

open system

it!

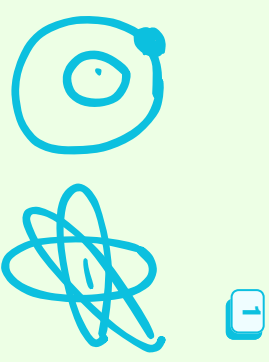


a system in which matter
can enter or escape into the
surroundings

picture

valence electron

it!

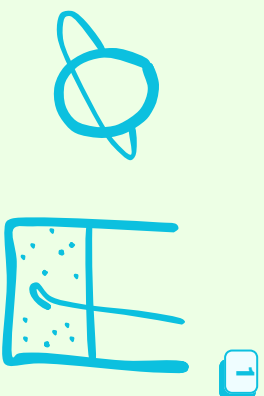


electrons that are in the
highest energy level of an
atom and that are involved
in chemical bonding

picture

saturated solution

it!

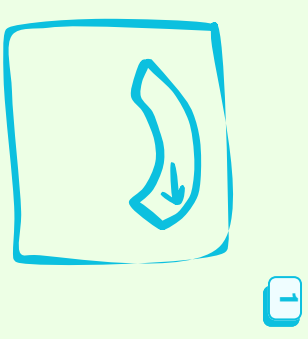


a mixture that contains as
much dissolved solute as is
possible at a given
temperature

picture

weight

it!



a measure of the force of
gravity acting on an object

picture

accuracy

it!



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

picture

deductive reasoning

it!



a measure of the force of gravity acting on an object

picture

cost

it!



a measure of the force of gravity acting on an object

picture

cultural bias

it!

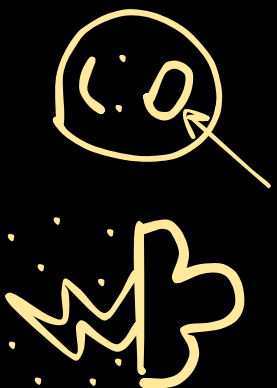


electrons that are in the highest energy level of an atom and that are involved in chemical bonding

picture

brainstorming

it!



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

picture

patent

it!

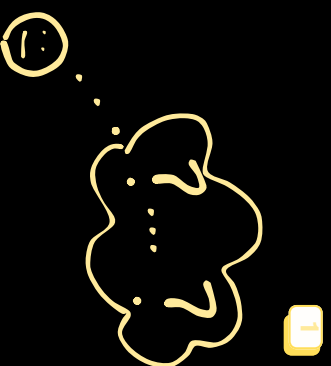


legal government document that gives an inventor exclusive rights to make, use, or sell an invention

picture

hypothesis

it!

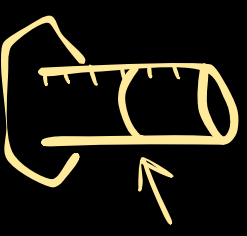


possible explanation for a set of observations or an answer to a scientific question; always testable

picture

meniscus

it!

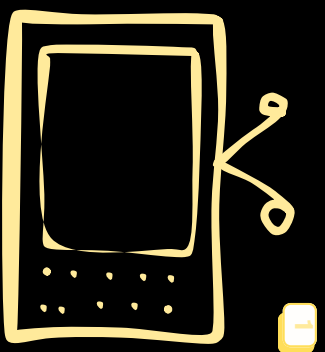


the curved upper surface of a liquid in a column of liquid

picture

obsolete

it!

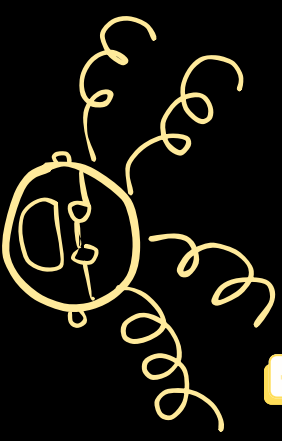


No longer in use

picture

skepticism

it!



an attitude of doubt

picture

precision

it!



how close a group of
measurements are to each
other

picture

variable

it!



a factor that can change in
an experiment

picture

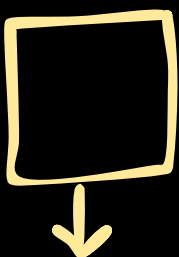
output

it!

picture

model

it!



material, energy, result, or
product that comes out of a
system



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

picture

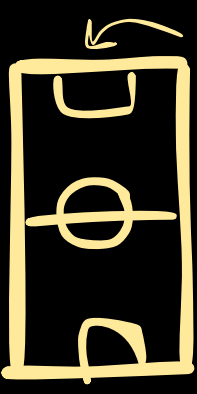
goal

it!

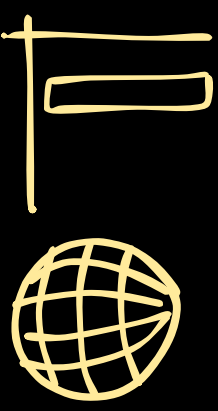
picture

metric system

it!



a purpose or objective of a
scientific study or
experiment

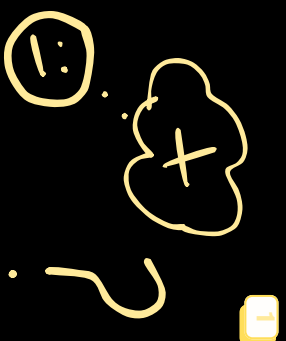


a system of measurement
based on the number 10

picture

inductive reasoning

it!



using specific observations
to make generalizations

picture

troubleshooting

it!



the process of analyzing a
design problem and finding
a way to fix it

picture

safety

it!



keeping away from danger
or hazard during
experimentation

picture

system

it!



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