

APPLAUSE

FINAL JEEPARTY

Jeopardy!

Matter and Energy 1

Matter and Energy 2

Fluids 1

Fluids 2

Behavior Gases

Misc.

100

100

100

100

100

100

200

200

200

200

200

200

300

300

300

300

300

300

400

400

400

400

400

400

500

500

500

500

500

500

This state of matter has a
definite shape and volume

Solid

A force acting at the surface
of a liquid that causes a liquid
to form drops

Surface Tension

99% of all matter in the
universe is in what state?

Plasma

State of matter that can
change both shape and
volume

Gas

Type of solid in which the atoms or molecules have no particular order (gum, clay)

Amorphous Solid

When matter goes from a gas
to a liquid

Condensation

When matter goes from a solid directly to a gas (skips the liquid stage)

Sublimation

Changes of state that require
energy

Endothermic Change

Changes of state that release
energy

Exothermic Change

When a substance loses or
gains energy, either its
temperature changes OR its
_____ changes

State (solid, liquid, gas)

An object with a density of
less than 1 will _____

Float

The resistance of a fluid to
flow

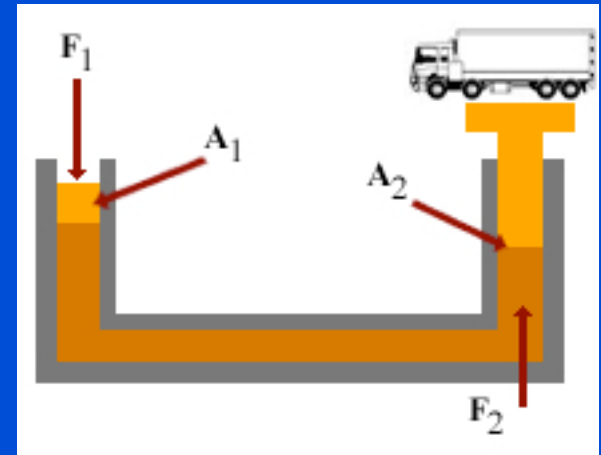
Viscosisty

Fluids include _____ and

Liquids and Gases

DAILY
Place A Wager
DOUBLE

A car has a weight of 19,000 N (4,500 lbs). If the area of the small piston on a lift is 10.5 cm^2 and the large piston is 400 cm^2 , what force needs to be applied to the small piston to lift the car?



498.75 N

States that a change in pressure at any point in an enclosed fluid will be transmitted equally to all parts of the fluid

Pascal's Principle

The amount of force exerted
per unit of area (Newtons/cm²)

Pressure

The SI unit for force

Newton (N)

The SI unit for pressure

Pascal (Pa)

Imagine you are holding your finger over a flowing garden hose. What happens to the speed of the water, and the overall flow rate?

Speed – Increases

Flow Rate – Stays the same

States that as the speed of a moving fluid increases, the pressure decreases

Bernoulli's Principle

What happens when you heat
a balloon?

It will expand (volume
increases)

Imagine your working on your car and there is a nut that is so tight you can't get it off...what could you do to make it easier to remove it?

Heat it up...the nut will
expand making it easier to get
off

Explain why a hot air balloon
works

Charles Law! Temperature
increase causes volume to
increase

If volume increases, it lowers
the density.

Give an example of Charles
Law

Volume increases with
temperature or visa versa
(pressure constant)

Balloon with get bigger if
heated

Give an example of Gay-Lussac's Law

Pressure increases with
Temperature or visa versa (if
volume is constant)

Tire pressure increases when
tires are hot

The transportation system of the cell

Endoplasmic Reticulum

Type of respiration that does
not require oxygen

Anaerobic Respiration

In this stage of mitosis the
chromosomes condense into
visible structures

Prophase

Small, round organelle that
can digest food particles, old
cell parts, and foreign
invaders

Lysosome

In this stage of mitosis two
new nuclei form at opposite
sides of the cell

Telophase

The Final Jeopardy Category is:

Please record your wager.

Click on screen to begin

Final Jeopardy Question

Click on screen to continue

Correct Final Jeopardy Response

Click on screen to continue

Thank You for Playing Jeopardy!

Game Designed By C. Harr-MAIT