# derfildel <br> www.jeopardy.com 



Jeopardy!

| Matter | Tempera <br> ture | Phase <br> Changes | Heat <br> Transfer | Thermal <br> Energy <br> vs Heat |
| :---: | :---: | :---: | :---: | :---: |
| $\underline{100}$ | $\underline{100}$ |  |  | $\underline{100}$ |
| $\underline{200}$ | 200 | 200 |  | 200 |
| 300 | 300 | 300 |  | 300 |
| 400 | 400 | 400 |  | 400 |
| 500 | 500 | 500 |  | 500 |

## Temperature $\$ 100$

\& Answer: The Measure of the average kinetic energy of the individual particles in an object

## Temperature $\$ 200$

\& Answer:
This is when its called when no more energy can be removed from matter.

## Temperature $\$ 300$

\& Answer:
Absolute zero is shown as 0 degrees on this scale

## Temperature $\$ 400$

## \& Answer:

If two glasses of water are at the same temperature, the average energy of the
icles in each glass
particles of the particles in each glass is the same.

## Temperature $\$ 500$

- Answer:

The amount of energy required to raise the temperature of 1 kilogram of a substance by 1 Kelvin is called its ?
\& Answer:
Which state of matter has the LEAST thermal energy?

## Matter $\$ 200$

\& Answer: Which state of matter has a definite volume but NO definite shape?

Matter $\$ 300$
\& Answer:
Two or more substances that are NOT chemically combined.

## Matter $\$ 400$

\& Answer:
The higher the viscosity of a fluid, the ___ it flows.

Answer:
Name three properties of compounds that make it different from a mixture.

## Thermal Energy Vs Heat $\$ 100$

\& Answer:
This is the total energy of all the particles in a substance.

## Thermal Energy Vs Heat $\$ 200$

## * Answer:

This is the movement of energy from a warmer object to a cooler object.

## Thermal Energy Vs Heat $\$ 300$

\& Answer:
The more thermal energy a substance has, the more ___ it has.

## Thermal Energy Vs Heat $\$ 400$

\& Answer: Heat is measure in a unit called

## Thermal Energy Vs Heat $\$ 500$

- Answer:

A jar of HOT green water is placed into an aquarium full of COLD water. The HOT green water begins to rise out of the jar to the top of the aquarium, spread out, and fall back down. Name the type of heat transfer.

## Phase Changes \$100

\& Answer:
HEY HOT SHOT! You receive $\$ 500$ free!

## Phase Changes

 $\$ 200$\& Answer:
Solid to Gas.

## Phase Changes \$300

* Answer:

Fog on a mirror.

## Phase Changes \$400

\& Answer:
Two types of vaporization.

## Phase Changes \$500

## \& Answer:

When a substance's thermal energy changes by a sufficient amount, it

## Heat Transfer \$100

Answer:
Heat is transferred from one particle of matter to another without the movement of matter itself in a process called.

## Heat Transfer

 \$200\& Answer:
A turtle laying on a rock in the sun.

## Heat Transfer \$300

\& Answer:
This is the transfer of energy by electromagnetic waves.

## Heat Transfer \$400

\& Answer:
This is an object that controls heat flow.

## Heat Transfer $\$ 500$

* Answer:

A hair dryer.

## Double Jeopardy!



## Gas Laws

 \$200* Answer:

Which law states when temperature of a gas increases at a constant pressure, its volume also increases and when the temperature is decreased, its volume also decreases.

## Gas Laws $\$ 400$

* Answer:

Which gas law states when pressure of a gas increases at a constant temperature, the volume of the gas decreases? When pressure decreases, the volume increases.

## Gas Laws

 $\$ 600$* Answer: DAILY DOUBLE! 1000 BUCKS FOR YOU!


## Gas Laws $\$ 800$

* Answer:

When temperature of a gas is increased, the pressure of the gas is

## Gas Laws \$1000

* Answer: What 3 factors affect the density of a gas?


## Heat and Thermal Energy $\$ 200$

## * Answer:

Which is an example of thermal expansion:
A Thermometer, a Refrigerator, or a Toaster?

## Heat and Thermal Energy $\$ 400$

## Answer:

What converts thermal energy to mechanical energy?

## Heat and Thermal Energy $\$ 600$

## * Answer:

The process in which an engine burns fuel to operate is known as

## Heat and Thermal Energy $\$ 800$

- Answer:

An engine that burns fuel on the outside.

## Heat and Thermal Energy $\$ 1000$

* Answer:

When particles spread out and a substance expands, it is called

Final Jeopardy!

Short Answer: Write your answar on a sheet of paper

## Short Answer

When heat flows from one substance to another, what happens to the temperature of the substance giving off the heat and to the temperature of the substance receiving the heat?

## Short Answer

The temperature of the substance giving off the heat decreases while the temperature of the substance receiving the heat increases.

