

NAME _____ PERIOD _____ Phase Changes to make you say Hmmm....

QUESTIONS TO ANSWER:

(Think of the answers we've already discussed about :

Why does a person sweating or out of the shower feels cooler,?

Why does ice melting stays at the same temperature while melting?

What phase changes help a refrigerator work ?

What cause wind chill factor?

Why do you blow OVER soup to cool it off?

How can you boil water at less than 100 Celsius?

Why does steam hurt so much, as compared to putting your hand in the oven?

1) HOW DOES A PRESSURE COOKER, OR CANNERY WORK?

2) HOW DOES BOILING/EVAPORATING HELP REFINE CRUDE OIL?

3) WHY DOES A WATER BALLOON BREAK, BUT NOT AN AIR BALLOON?

A)** WHY DOES A FOG FORM NEAR THE NECK OF A SODA BOTTLE WHEN YOU OPEN IT?

B)** WHY DOES THE NECK OF A SODA BOTTLE FEEL COLD AS YOU OPEN IT?

C)** WHEN YOU BAKE A CAKE ABOVE 3500 FEET, WHY DOES THE RECIPE CALL FOR: MORE FLOUR, MORE WATER, AND A HIGER BAKING TEMPERATURE?

D) ** WHEN A TUNNEL UNDER THE THAMES RIVER WAS FIRST BUILT, LOCAL POLITICIANS CELEBRATED BY DRINKING SPARKLING BEVERAGE IN THE TUNNEL. WHEN THEY RETURNED TO LONDON LATER, MANY OF THEM BECAME VERY SICK... WHY, AND WHAT DID THEY DO TO HELP THEM?

How do SKIS work in the winter? When and why do they have to be BE WAXED?

F)** WHAT IS THE BEST TEMPERATURE AND METHOD TO MAKE SNOWBALLS, AND WHY?

G)** IT IS VERY TRUE THAT HOT WATER WILL FREEZE FASTER THAN COLD WATER. WHY??

H)** IS IT POSSIBLE TO COOL OFF A VERY HOT ROOM BY LEAVING THE REFRIGERATOR DOOR OPEN?

I) ** WHAT CAUSES DANCING WATER DROPS ALONG A HOT SKILLET?

J)** SOME PEOPLE LEAVE A BUCKET OF COLD WATER NEAR THEIR CAR RADIATOR SO THAT IT WON'T FREEZE OVER A COLD WINTER NIGHT. WHY?

K)** HOW DOES A WATER/STEAM RADIATOR HELP HEAT A HOUSE OR ROOM?

L)** WHY DOES THROWING SALT OR STUFF IN VERY HOT WATER MAKE IT BOIL MORE??