

PURPOSE: WHAT'S THE
DIFFERENCE BETWEEN
PHYSICAL and CHEMICAL?

#1 CHANGES

(A) IN PHYSICAL CHANGES
THE SUBSTANCE HAS THE
SAME PROPERTIES BEFORE
AND AFTER

(B) IN CHEMICAL CHANGES
A NEW SUBSTANCE IS
PRODUCED WITH NEW
PROPERTIES.

Example: MELTING AN
ICE CUBE IS PHYSICAL

TODAY

- 1) NOTES
- 2) FRY AN EGG
- 3) CHECK HOMEWORK
- 4) DESTROY WOOD
TO MAKE
CHARCOAL
[BE SAFE!]

Method to make charcoal

- 1) Put wood
in a test tube.
- 2) Heat it like
crazy in the
absence of air.

IS
A
MELTING
ICE
CUBE

PHYSICAL
OR
CHEMICAL?

Answer: Physical

E.H.S. CHEMISTRY
MR. GENEST
TEST 1



Name: _____
Date: September 22, 2016
Your Period: _____

pedist

this is chem → definition

goggles / air / fire wood splints

post # 1 substances

substance or mixture?
E.H.S. @M!\$+ry
Mr. Genest



Name _____
Date ANSWERS
Tutors! Adults! Help this young chemist by visiting <http://genest.weebly.com> with any smart phone

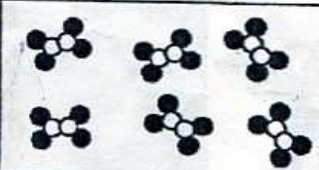
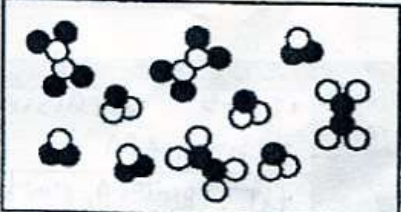

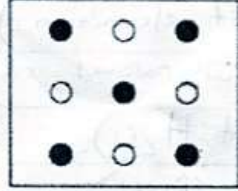
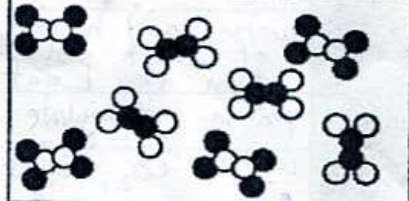
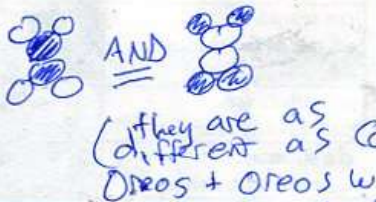
We think this stuff is	Name of stuff	If you said it's a mix, what's it a mix of?
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances	a hot serving of Cinnamon-Raisin Oatmeal	oats • raisin • cinnamon
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> mix of substances	Plain hot oatmeal	fat, protein, carb
<input checked="" type="checkbox"/> a substance <input type="checkbox"/> a mix of substances	a sheet of aluminum foil	(just aluminum)
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances	Snickers®	peanuts, caramel, chocolate etc
<input checked="" type="checkbox"/> a substance <input type="checkbox"/> a mix of substances	steam	(just H ₂ O)
<input checked="" type="checkbox"/> a substance <input type="checkbox"/> a mix of substances	an iron frying pan	(just IRON)
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances	hot tea (after you take the tea bag out)	water and hundreds of plant substances from tea leaf
<input type="checkbox"/> a substance <input type="checkbox"/> a mix of substances	an apple	protein, carbohydrate
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances	Pepsi®	water, CO ₂ , sugar, etc.
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances	water with sugar dissolved in it	water sugar
<input type="checkbox"/> a substance <input type="checkbox"/> a mix of substances	very smooth peanut butter	fat, protein, carbohydrates

ANSWER
IF YOU MAKE THE COLUMN MAKE SENSE! MAKE SENSE! MAKE SENSE!
FOR PART 1

We think this stuff is	Picture of stuff	If you said it's a mix, what's it a mix of? (draw one of each type of particle)
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances		8 and ●

8282

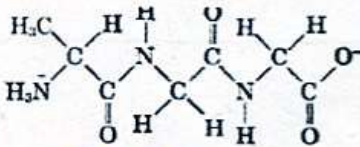
2009

<input checked="" type="checkbox"/> a substance <input type="checkbox"/> a mix of substances		
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<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances		
<input type="checkbox"/> a substance <input checked="" type="checkbox"/> a mix of substances		

Using notes from last week, calculate the Calories that are in a piece of food that contains 4 grams of fat, 5 grams of protein and 6 grams of carbohydrate.

fat $4 \times (9) = 36$
 protein $5 \times (5) = 25$
 carb $6 \times (5) = 30$
91 calories

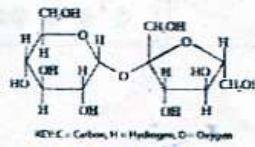
Under each write either carbohydrate, fat, or protein:



PROTEIN



FAT



CARB