COMBUSTION

L1: Examine Nutrition Labels

Guiding Question: What is most important in determining the "healthiness" of a food?

Do Now:

 Looking at the 4 images below, what do they have in common and what is different? Be prepared to share out to the whole class









NUTRITION LABELS - GUIDED WALK-THROUGH

- You will work with your group on the chrome books. If you have your own device, you can use it too, but you must work in your groups.
- Go to our Schoology page to find the link for the website.
- Follow the steps for the tutorial. Answer the questions as you go.
- When you are done, call me over to check off your progress and release you to page 5

INVESTIGATING NUTRITION LABELS

- Chose one nutrition label from the front of the room using the guidelines from the workbook.
 - It must have both fat and sugar in it.
- Answer the questions on page 5 using the nutrition label you chose.
- Determine if it qualifies for the vending machines at the school.

- Calorie A measure of <u>energy</u>; how much <u>energy</u> is required to raise <u>1kg</u> by <u>1°C</u>.
- Energy Breakdown:
 - Fats 9 Calories/gram
 - Carbohydrates 4 Calories/gram
 - Proteins 4 Calories/gram
- We will also discover that the not all fats, carbohydrates, or proteins are created equal. Some are more <u>nutritious</u> than others.

- Carbohydrates are the body's main source of energy 3 Types:
 - Refined and Natural Sugars <u>Simple Carbohydrates</u>
 - Found as glucose, sucrose, lactose, maltose, fructose
 - Come from sugar cane, beets, fruit, and other sources
 - These tend to be classified as <u>unhealthy</u>. But we will find that you can eat anything as long as it is in <u>moderation</u>.
 - Starches <u>Complex Carbohydrates</u>
 - Found in grains, legumes, rice, potatoes
 - The body must break these down into <u>simple carbs</u> first before getting energy out of it.

- Fats:
 - <u>Saturated Fats</u>
 - Solid at room temperature
 - Found in some meat and dairy products
 - Can raise <u>cholesterol levels</u>
 - Found in butter, cheese, lard and margarine
 - <u>Unsaturated Fats</u>
 - Mostly <u>Liquid</u> at room temperature
 - Made from plant products
 - Found in corn oil, canola oil, olive oil, coconut oil, etc.

- Fats:
 - Trans Fats
 - A process called <u>hydrogenation</u> that makes unsaturated fats solid at room temperature
 - Found in shortenings and many margarines
 - Raises <u>cholesterol</u>
 - Fatty Acids
 - Need to eat those that the body <u>cannot produce on its own</u>
 - Used to make complex molecules like <u>hormones</u>

HOMEWORK

- Bring back signed syllabus by tomorrow (Friday)
- Homework 1 Due NEXT Friday (8/25)