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Lip Balm

Read the labels from three different brands of commercially sold lip balm. List ALL the ingredients, including any 'active' or 'other' ingredients. Be careful to spell the chemical names correctly. Please do not buy any products for this assignment- just read what you have at home or take a notebook to a store.

	Product 1	**Product 2**	**Product 3**
Brand of Lip Balm			
Complete Name of Product			
Active Ingredients and amount (#% w/w or # mg)			
1			
2			
3			
4			
5			
Inactive or 'Other' Ingredients			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			

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Questions:

1. List any ingredients that all three commercial products have in common.

2. Using the internet, list the common names or acronyms, uses or purpose, and any safety concerns for the ingredients the products have in common and for any active ingredients.
   http://www.fda.gov/Cosmetics/default.htm , Wikipedia, chemfinder.com,
   http://www.cosmeticsdatabase.com/ingredient.php?ingred06=707069

Ingredient	Common Name or Acronym	Purpose or Use	Safety Precautions or concerns

Name _____ date _____ period _____

Ingredient	**Common Name or Acronym**	**Purpose or Use**	**Safety Precautions or concerns**

Name _____ date _____ period _____

Questions:

1. List any ingredients you would definitely want to use when making your own lip balm.

2. List any ingredients you definitely would NOT want to use when making your own lip balm.

Basic Lip Balm Recipe (for one 0.15 oz tube) from www.thesage.com We will use the following basic recipe for our lip balm. You will need to decide on which ingredients to use AND determine the proper amounts of each. You must also design a label for your lip balm that list the ingredients in order of highest to lowest, and clearly states any safety precautions.

Ingredients:

w/w%	
20	Beeswax
25	Solid oil at RT (Coconut Oil, Palm Oil, Shea Butter, Lanolin, etc.)
15	Brittle oil at RT (Regular Cocoa Butter, Palm Kernel Oil, etc.)
40	Liquid oil at room temperature (Sweet Almond Oil, Olive Oil, Avocado Oil, etc.)

**** No more than 2 w/w% of flavor oil or 1 w/w% of essential oil should be added.**

Instructions:

Weigh all ingredients. Melt in a double boiler until all items are melted. Beeswax is the item that will take the longest to melt. Use caution and never heat over direct heat. Once the oils are melted use a transfer pipette to dispense the solution into lip balm tubes. Be careful not to burn yourself. Oils and wax get hot very quickly and the temperature can climb higher than you suspect. Fill tubes until the inside screw is barely covered. Allow to firm for a few minutes. Once the lower tube is firm then top off the tube with more oil/wax solution. The dropper can be used to make a dome of solution on the lip balm tube. Once the solution cools there will be a slight indentation from shrinkage. Cap when all tubes are filled.

Notes & Comments: Always use a plastic transfer pipette. Glass droppers are cooler than the oil mixture and it will quickly solidify inside the dropper

Preparation:

Determine the ingredients you will use and the proper mass to use of each. w/w% is an abbreviation for 'weight/weight percent". It tells the percentage of the total weight of a certain ingredient. For example, 10 w/w% means that 10% of the total weight of a product is due to a specific ingredient.

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Personal Lip Balm Recipe

Amounts to use for one 0.15 oz. tube

Ingredient	**Type Chosen**	**w/w%**	**Ounces**	**grams**	***Waste Calculation***
Beeswax	Bees wax				
solid oil (Coconut Oil, Palm Oil, Shea Butter)					
brittle oil (Cocoa Butter, Palm Kernel Oil)					
liquid oil (Sweet Almond Oil, Olive Oil, Avocado Oil)					
Flavor **or** essential oil					
Total		**Must add to 100!**	**.15 oz**		

To calculate the ounces to use of each ingredient, use the following equation **Ounces to use = (X w/w%) x 0.15 / 100**

Show your work for each calculation!!

To convert from ounces to grams, use the following conversion factor. 1 ounce = 28.35 grams

Show your work for the gram calculation for each ingredient!

Safety --Attach safety information for each of the ingredients you intend to use. The safety information MUST be from a valid source (www.FDA.gov or other government website, a '.org' website, or an MSDS sheet)

Labels

All cosmetic labels are required by law to have the following:

- You must identify the manufacturer or distributor (by name) of the product and have a way for the customer to reach them. Use company name, address and phone number.

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• You must list the ingredients in the order that they appear in your formula. The ingredients must be identified by their botanical (INCI) name. A marketing description and use of the product is nice, as is the fragrance name, but it is not required unless the product use is not obvious or you are exporting to another country.

• The Department of Weights and Measures requires the actual weight of the product both in standard and metric to be disclosed on the label. Metric should be first to comply with EU requirements.

• Include any warning statements needed or required by law as with bubble baths or products containing AHA's. IE: "Warning: Not for use in or around eyes."

Draw the label you intend to use here, include ingredient and safety warnings.

"This product was funded by a grant awarded under the President's Community-Based Job Training Grant as implemented by the U.S. Department of Labor's Employment & Training Administration. The information contained in this product was created by a grantee organization and does not necessarily reflect the official position of the U.S. Department of Labor. All references to non-governmental companies or organizations, their services, products, or resources are offered for informational purposes and should not be construed as an endorsement by the Department of Labor. This product is copyrighted by the institution that created it and is intended for individual organizational, non-commercial use only."