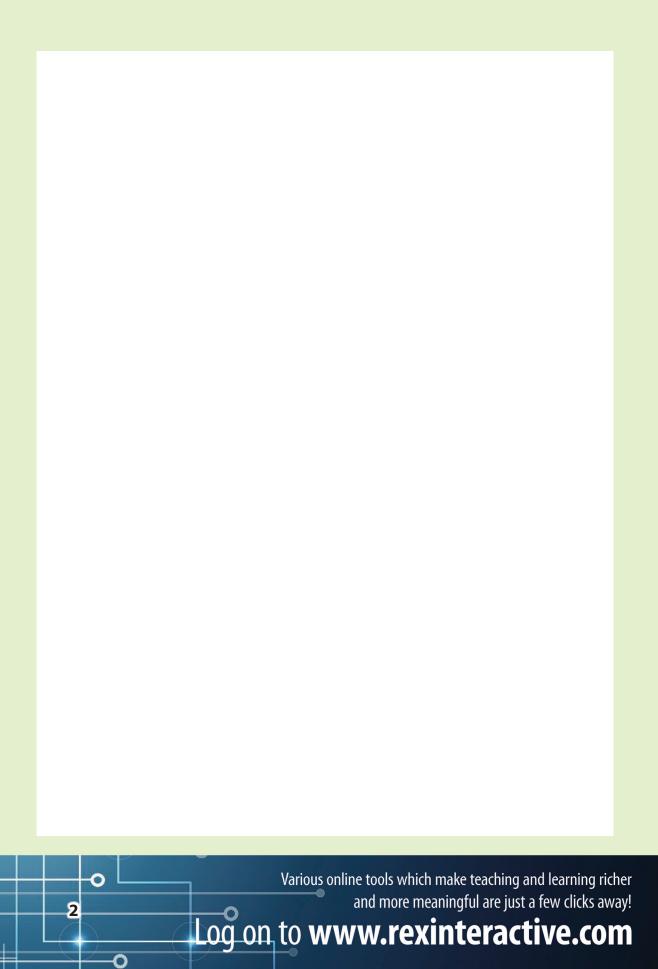
SUPPLEMENTAL LESSONS

Science Grade 9
2nd Quarter



2nd Quarter Grade 9 Revised Standards on Matter

Learning Competency:

- Analyze the percent composition of different brands of two food products
- Identify which product is better by looking at the percent composition of ingredients and nutrients in the products

Lesson Focus: Percent Composition

I. Introduction

Activating Prior Knowledge

Pick One

- a. Prepare pairs of similar products with different brand names. Make it a point that the quality between the two products is very different from each other, like Del Monte Pineapple Juice versus Zest-O Juice Drink.
- b. Ask the students to choose which one of the two products is better and let them justify their answers.

II. Body

It's Grocery Time!

- a. Group the students by threes and ask them to bring grocery products of the same type but different brand name.
- b. Let them analyze which ingredients listed at the label of the products are similar and compare its quantity and quality.
- c. Let them decide which product is better.
- d. The students should present their findings in front of the class and let them justify their decisions.

III. Conclusion

- 1. Healthy Living
 - a. Ask the students to compute the amount of soft drinks they drink for one week.
 - b. Let them look at the label of the soft drink and ask them to compute the amount of sugar they intake for every bottle they drink.
 - c. Have them compute the amount of sugar they intake for one week.
 - d. Refer to the recommended amount of sugar for a teenager to take and let them conclude whether their diet is healthful or not.

2. Mental Gymnastics

Calculate the percent composition of the following compounds:

- a. Fe₂O₃ (rust)
- b. $C_{14}H_{29}NO_4S$ (penicillin)
- c. $Al_2(SO_4)_3$ (anti-perspirant)
- d. Mg(OH)₂ (antacid)
- e. $C_{22}H_{24}N_2O_8$ (tetracycline, antibiotic)