

# **SUPPLEMENTAL LESSONS**

**Science Grade 9  
2nd Quarter**



Various online tools which make teaching and learning richer  
and more meaningful are just a few clicks away!

Log on to **[www.rexinteractive.com](http://www.rexinteractive.com)**



# 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

- 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.
- 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!

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

#### III. Conclusion

1. Healthy Living

- Ask the students to compute the amount of soft drinks they drink for one week.
- 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.
- Have them compute the amount of sugar they intake for one week.
- 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:

- $\text{Fe}_2\text{O}_3$  (rust)
- $\text{C}_{14}\text{H}_{29}\text{NO}_4\text{S}$  (penicillin)
- $\text{Al}_2(\text{SO}_4)_3$  (anti-perspirant)
- $\text{Mg}(\text{OH})_2$  (antacid)
- $\text{C}_{22}\text{H}_{24}\text{N}_2\text{O}_8$  (tetracycline, antibiotic)

Various online tools which make teaching and learning richer  
and more meaningful are just a few clicks away!

4

Log on to [www.rexinteractive.com](http://www.rexinteractive.com)