

**SUBJECT: MATHEMATICS**

<b>LEVEL</b>	Primary 4	<b>TOPIC</b>	Money / Addition / Subtraction / Multiplication / Division
<b>VENUE</b>	Classroom	<b>DURATION</b>	1 Hour / 2 periods
<b>LEARNING OBJECTIVES</b>	<p>By the end of the lesson, students will be able to achieve the following:</p> <ol style="list-style-type: none"> <li>1. Solve simple word problems involving money using the 4 operations.</li> <li>2. Explain how the use of reusable bags instead of plastic bags can save the Earth from the negative impact of plastic waste.</li> </ol>	<b>MATERIALS NEEDED</b>	<ul style="list-style-type: none"> <li>●Activity Worksheet (Provided)</li> <li>●XYZ Supermarket Advertisement (Provided)</li> </ul>

<b>Duration</b>	<b>Description of Activities</b>	<b>Resources</b>
10 mins	<p><b>1. INTRODUCTION – TUNING IN</b></p> <p><u>Teacher to inform pupils of the objectives of the day's lesson.</u></p> <p>Start the lesson by showing a video regarding negative impacts of plastic waste to the environment.</p>	<p>Video: Plastic Planet (short version) <a href="http://youtu.be/t_wXlfV-xc4">http://youtu.be/t_wXlfV-xc4</a></p>
5 mins	<p><b>2. DEVELOPMENT</b></p> <p>Teacher to briefly run through the questions on the worksheet and pair students up to complete the activity.</p> <ol style="list-style-type: none"> <li>1. Students to work in pairs to solve 4 word problems given various scenarios using the 4 operations when possible.</li> <li>2. Individually understand simple word problems to calculate the total cost savings over a period of time.</li> </ol>	<p>Activity Worksheet XYZ Supermarket Advertisement</p>

<p>40 mins</p>	<p><b>3. ACTIVITY</b></p> <p>Teacher to use <b>Cooperative Learning Strategy- Pair Check.</b></p> <ol style="list-style-type: none"> <li>1. Pupils to work in pairs (student A and student B).</li> <li>2. Teacher to give every pair of student 2 word problems and one XYZ supermarket advertisement. They can both solve it simultaneously. (<b><i>Refer to Activity worksheet and XYZ supermarket advertisement for Q 1 and 2.</i></b>)</li> <li>3. All pairs to discuss their answers.</li> <li>4. Teacher will then choose one or two pairs to share the problems with the class and give comment on their mathematical solutions and other answers.</li> </ol>	<p>Activity Worksheet XYZ Supermarket Advertisement</p>
<p>5 mins</p>	<p><b>4. CLOSURE</b></p> <p>Teacher to sum up the class by recapping with students on the following:</p> <ol style="list-style-type: none"> <li>1. The use of the 4 operations to calculate cost savings when reusable bags are used instead of plastic bags.</li> <li>2. The use of reusable bags instead of plastic bags can save the Earth from the negative impact of plastic waste.</li> </ol>	

**XYZ Supermarket Advertisement**



**Fresh Milk**

Price: \$5.90



**Longans**

Price: \$6.20



**Tuna**

Price: \$2.50



**Wheat Grain**

Price: \$2.10



**Sugar Crackers**

Price: \$2.10



**Cream Crackers**

Price: \$1.70

**Mathematics Activity Worksheet**

Names: \_\_\_\_\_

Date: \_\_\_\_\_

Class: \_\_\_\_\_

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Refer to the XYZ supermarket advertisement and solve the problem 1 and 2. Do make use of all 4 operations to answer the questions when possible. Do show all workings of 4 operations.

Problem 1

You are tasked by your parents to do the weekly grocery shopping for an upcoming party. You are to purchase 3 bottles of fresh milk, 4 boxes of longan and 6 cans of tuna.

- i) How much would the total bill amount to?
- ii) How much change would you received if you had \$ 70 at first?

Answer (i): \_\_\_\_\_

Answer (ii): \_\_\_\_\_

Problem 2

**If you used your own bag to carry your purchased items, you enjoy 20 cents off the total bill.**

- i) How much would you save if you visited the supermarket 52 times in a year?
- ii) With the savings you have accumulated, what is the maximum number of products you could buy from the XYZ supermarket advertisement?
- iii) If you have reusable bags at home, would you bring it to the supermarket to pack your grocery? Why?

Answer (i): \_\_\_\_\_

Answer (ii): \_\_\_\_\_

Answer (iii): \_\_\_\_\_

\_\_\_\_\_

Problem 3

**A pack of 10 zip lock bags costs \$3. You have an existing lunch box at home.**

- i) If you use your lunch box instead of zip lock bags to pack your lunch for 10 days, how much would you save each day?
- ii) Would you continue to use your lunch box in the future? Why?

Answer (i): \_\_\_\_\_

Answer (ii): \_\_\_\_\_  
\_\_\_\_\_

Problem 4

You were at a bookshop paying for 2 pens when you saw this sign at the cashier's counter.



Plastic bag size	Price
VERY LARGE (A1)	\$1.07
LARGE (A2)	\$0.54
MEDIUM (A3)	\$0.32
SMALL (A4)	\$0.21

- i) What would you do the next time you shop there knowing that you are getting many items?
- ii) Explain briefly, giving 2 reasons why.

Answer (i): \_\_\_\_\_

\_\_\_\_\_

Answer (ii): \_\_\_\_\_

\_\_\_\_\_

**Suggested solution for Worksheet**

**Problem 1**

- i)  $3 \times \$5.90 + 4 \times \$6.20 + 6 \times \$2.50 = \$57.50$
- ii)  $\$70 - \$57.50 = \$12.50$

**Problem 2**

- i)  $52 \times \$0.20 = \$10.40$
- ii)  $\$10.40 \div \$1.70 = 6$  packets of Cream Crackers (round down)
- iii) Yes. It will help me to save \$ 10.40 which can be used to buy other grocery items. I am also more environmentally friendly when I reduce the use of the plastic bag.

**Problem 3**

- i)  $\$3 \div 10 = \$0.30$
- ii) Yes. It will help me to save money and I can do a part to save the environment.

**Problem 4**

- i) I would bring my own bag to pack the things that I am going to buy.
- ii) 1) I would be saving money since I have my own bag.  
2) I would be more environmentally friendly when I reduce the use of plastic bags.  
3) I would be a role model to my peers.  
4) It would create an opportunity for me to share the reasons behind my choice.