SAINT JOSEPH BANGNA SCHOOL
Lesson Plan

Lesson Plan	**Semester:** 2	**School Year:** 2021 – 2022
Subject: Fundamental Mathematics		**Teacher's Name:** Vicky P. Tamaca
Grade: G.11/1–2	**Unit No:** 7	**Date:** 20 December 2021

1. Theme(s)/Topics(s):

The Value of Money

2. Strand and Learning Standard:

M 5.3Gr 10-12/1 Apply data, information and statistics for decision-making and problem-solving.
M 6.1Gr 10-12/1 Apply diverse methods for problem-solving.
M 6.1Gr 10-12/4 Accurately and succinctly use mathematical language and symbols for communication of concepts and presentation.
M 6.1Gr 10-12/6 Attain ability for creative thinking.

3. Objectives

A. Terminal Objectives:

The students will be able to

1. define compound interest and understand what each of the individual variables represents;
2. calculate the amount of interest earned or the total value of an investment after a given time period, where interest is compounded annually or at an interval other than 1 year; and
3. solve problems involving compound interest.

B. Behavioral Objectives:

The students will be able to

1. use mathematical vocabulary and notation fluently.
2. explain the problems using the appropriate mathematical terms of the given topic.

4. Gospel Value(s):

1. Courage
2. Gratitude
3. Service

5. Content(s):

Compound Interest

6. Procedures:

Teaching Strategy(ies):

1. Discuss what compound interest is.
2. Explain the term compounding period.
3. Provide the formula and calculate examples.
4. Relay the importance of investing money over time and how the longer the term the greater the rewards.
5. Work through examples together.
6. Discuss interest that compounds more than once per year.
7. Provide the revised formula.
8. Work through a few examples.
9. Demonstrate the effect of compounding periods over long term investments or loans.
10. Demonstrate how to algebraically rearrange the formula.

11. Work through examples that solve for unknowns other than the total interest earned or total amount of the principal plus the interest.

7. Materials/Visual Aids:

Textbook(s): Heinemann VCE ZONE Further Mathematics (pp. 281-325)

Supplementary Book(s): https://www.nagwa.com/en/lessons/347101847386/
https://www.oregonianscu.com/money-thing/Lesson_Plan_Package_06_Compound_Interest_US.pdf