















Second Semester SY 2020-2...

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[SHS ONLY] Senior **Highschool Teachers** Online Class Performance **Evaluation (Manila:** Part 5)[Required]

**Student Perception** on Limited F2F Survey (Required)

## 2.1 Rates of Interest



## COMPOUNDINTEREST

Engr. Feb June R. Gogola

Immersive Reader

Intended Learning Outcomes

At the end of the lesson, the student shall be able to:

- 1. Differentiate the difference between the nominal and effective rate of interest.
- 2. Apply the formulas/equations in interest rates to solve word problems.

## Nominal Rate of Interest & Effective Interest Rate

Nominal rate of interest is also defined as a stated interest rate. This interest works according to the simple interest and does not take into account the compounding periods. For example, a nominal annual interest rate of 12% based on monthly compounding means a 1% interest rate per month (compounded). It is equal to the periodic interest rate times the number of periods per year.

The nominal rate of interest specifies the rate of interest and a number of interest periods in one year.

$$i=rac{i_n}{m}$$

Compounding period; (m)

	m
Annually	1
Semi-annually	2
Quarterly	4
Monthly	12
Daily	365

Effective rate of interest is defined as the actual or the exact rate of interest earned on the principal during a one-year period. It is the one that caters to the compounding periods during a payment plan.

$$i_e = \left(1+i\right)^m - 1$$

$$egin{aligned} i_e &= \left(1+i
ight)^m - 1 \ i_e &= \left(1+rac{i_n}{m}
ight)^m - 1 \end{aligned}$$



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