LEARNING AS ONE NATION
Expanded Project

Math 10_Q3_1

JHS LEARNING ACTIVITY

Name: _____ **Grade/Score:** _____
Grade and Section: _____ **Date:** _____

Subject *(Check or choose from below.)*

- ☐ Religion/Values Education
- ☐ Natural Sciences
- ☐ Araling Panlipunan
- ☐ Filipino
- ☐ English
- ☐ Math
- ☐ TLE / ICT
- ☐ MAPEH
- ☐ HGP _____

Type of Activity *(Check or choose from below.)*_____

- ☐ Concept Notes
- ☐ Skills: Exercise / Drill
- ☐ Performance Task
- ☐ Illustration
- ☐ Formal Theme
- ☐ Informal Theme
- ☐ Others: _____

Activity Title: Simple Permutations

Learning Target: To determine the number of permutations of a given set of items.

References: *(Author, Title, Pages)*
Florita C. Lamayo, et. al., Integrated Mathematics, pp.237-239
V. G. Baja and M. V. Bernido, CVIF Learning Activities

Permutation – different arrangements in definite order of some or all elements of a set of objects.

Example:

In how many ways can the three letters x, y, and z be arranged?

The three letters can be arranged in six (6) ways.

(x, y, z) (x, z, y) (y, x, z)
(y, z, x) (z, x, y) (z, y, x)

Exercise:

In how many ways can these four figures be arranged on a board? Draw an illustration for each arrangement.