Understanding by Design Template

Teacher Ms.Elgaramouni Grade___Four_____
Date_____   Subject__Math_____

Stage 1- Desired Results

Established Goals: After the lesson, the learners will be able to:
- Understand that a multi-digit whole number, that is, a digit within one place is representative of ten times whatever it represents within the place on its right. For instance, find out that 700/70=10.
- Understand multi-digit whole numbers.

Understandings:	**Essential Questions:**
- Multiplication by ten usually increases the value of a number and ends up shifting its place one position towards the left. - Each digit within a particular number has a certain value.	- Can the learner explain the value of every digit as a fraction (1/10) of the value of the digit within its left? - Do the students understand the diverse strategies of multiplying by ten?
Students will know…. - How to explain the value of every digit as ten times the value of digits to its right. - Define the patterns found within place value.	Students will be able to… Demonstrate a good understanding of place value by flexibly working with numbers.

Stage 2- Assessment Evidence

Performance Tasks: Through the use of base ten blocks along with a place value chart, students will learn relations between digits along with their place value.	**Other Evidence:** Introduce the students to the place value chart, where they get to know the relationships between, ten, hundreds, thousands, ten thousands, etc. .
Self-Assessments: The students will be given a concept development exercise.	**Other Evidence, summarized**: Correct labeling of tens, hundreds and thousands in the place value chart will indicate understanding.

Stage 3 Learning Plan

Learning Activities:

Introduction
- Students are set to meet the teacher in class, whereby unlabelled value chart and blocks will be greatly used.
- Learners will be introduced to the topic through the use of a video that illustrates relationships between, ten, hundreds, thousands, ten thousands, etc.
- The teacher will help the learners identify the relationships between, ten, hundreds, thousands, ten thousands, etc. within the place value chart.

Individual Practice
- Each student will be labeling, tens, hundreds, thousands, ten thousands within a place value chart.
- A student will be required to write a multiplication sentence which shows the relationship of one hundred and one thousand within the personal white board.
- Each student will draw place value disks within the place value chart to determine the value of ten times, one thousand.
- The same process will be repeated with different values.
- Students will be circling of the digits in the different answers obtained