**LESSON DEVELOPMENT ONE**

**RANGE, MODE AND MEDIAN**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1****Introduction – Introductory Activities** **(5 minutes)** | Asks pupils –1. Find the youngest and oldest.2. Find the different between youngest and oldest. 3. How many pupils are 7, 8, 9, 10, 11, 12, 13 and 15 years? 4. Which of ages has the highest number of pupils? | The ages of 12 pupils in a class are as follows – 7 years, 10 years, 9 years, 12 years, 15 years, 13 years, 10 years, 8 years, 9 years, 9 years and 11 years1. Youngest is 7 years and the oldest is 15 years.2. 15 years – 7 years = 8 years.3. 7 (1), 8 (1), 9 (3), 10 (2), 11 (1), 12 (1), 13 (1) and 15 (1).4. 9 years has 3 pupils.  | Linking the Previous knowledge to the new lesson  |
| **Step 2** **Development** **(5 minutes)** **Grouping** | 1. **Groups** the learners into four groups – A, B, C, and D. 2. **Guide** the learners to choose a leader and secretary for your group. 3. **Gives** each group learning materials – chart showing different data.  | 1. Belong to a group. 2. Choose their leader and secretary. 3. Received learning materials for their group.  | Learner’s group, leader and secretary confirmed. |
| **Step 3****Development – Groups Activities** **(5 minutes)** | Based on previous activities, the ***range*** is 6 years. ***What is range?***The ***mode*** is 9 years. ***What is mode?***Asks them to arrange the ages from the lower to the highest. Find the middle age.If the ***median (middle)*** age is 10 years, what is median?  |  Range is the different between highest ages and lowest ages. Mode is the ages with highest number of pupils. 7, 8, 9, 9, 9, 10, 10, 11, 12, 13 and 15 years. The middle age is 10 years.Median is the middle age.  | Range, Mode and Median  |
| **Step 4****Development – Groups Activities** **(10 minutes)** | **GUIDED INSTRUCTIONS** Find the range, mode and median.  | In a mathematics test ten pupils scored the following marks – 20%, 30%, 90%, 65%, 78%, 95%, 10%, 82%, 55%, 45%, 30%, 30%, and 60%. |  Groups work  |
| **Step 5****Development – Presentation** **(10 minutes)** | Asks each group to present their results/solutions so that you can compare responses with those in other groups. | **Presentation – Call on any member of at least two pairs in each to make presentation to the class.** | Group Presentation  |
| **Step 7****Conclusion****(5 minutes)** | To conclude the lesson, the teacher revises the entire lesson and ask the key questions. **SUMMARY** Range is the different between highest and lowest score or number. Mode is the most occurring number while median is the middle number. If the middle number is two, add them together and divide by 2  | The learners listen, ask and answer questions.**KEY QUESTIONS –**The weights of ten boys are - 60 kg, 56 kg, 59 kg, 50 kg, 57 kg, 56 kg, 55 kg, 56 kg, Find the – 1. Range 2. Mode 3. Median  | Lesson Evaluation and Conclusion  |

***Reference book – New Method Mathematics***