**LESSON DEVELOPMENT THREE**

**AVERAGE SPEED**

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| **STAGE/TIME** | **TEACHER’S ACTIVITIES** | **LEARNER'S ACTIVITIES – MIND/HANDS ON** | **LEARNING POINTS** |
| **Step 1**  **Introduction**  **(5 minutes)** | Guides pupils to solve this question –  Mohammed starts from home at 7:15 a.m. and arrives at school at 8:05 a.m. How long does he take to get to school? | **HANDS ON ACTIVITIES**  Finishing time 8h 05m  Starting time 7h 15m  Time taken 5h 45m am. | 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 of average speed = distance/speed | 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**  **(10 minutes)** | Guides and Lets each group study the chart as they identify average speed to equal to distance over time. That’s,  Average speed = Total distance covered  Total time taken  Note: If the distance is in metres and the time is in seconds, then the average speed will be in metres per second. i.e. average speed (m/s) = metres/seconds. | **MIND ON ACTIVITIES**  Pupils identified the average speed = Total distance covered over total time taken.  The units as metre/second or kilometer/hour. | Average speed and its units. |
| **Step 4**  **Development**  **(10 minutes)** | Guides the groups to identify distance and time and lets them solve these questions –  A train moved from Lagos to kano, a distance of 4 800 km. Find the average speed if it took:  1. 5 hours  2. 6 hours  3. 8 hours | **MIND ON ACTIVITIES**  Total distance covered from Lagos to Kano is 4 800 km. If it took –  1. 5 hours, A = (4 800 km)/5 h = 980 km/h  2. 6 hours, A = (4 800 km)/6 h = 800 km/h  3. 8 hours, A = (4 800 km)/8 h = 600 km/h | Working Examples/exercises |
| **Step 5**  **Conclusion**  **(5 minutes)** | To conclude 4the lesson, the teacher revises the entire lesson and ask the key questions.  **Keys questions – Assignment**  A train moved from Lagos to kano, a distance of 4 800 km. Find the average speed if it took:  1. 10 hours  2. 12 hours. | Pupils listen, ask and answer questions.  Assignment taken. | Conclusion and assignment |