**LESSON DEVELOPMENT THREE**

**AVERAGE SPEED**

|  |  |  |  |
| --- | --- | --- | --- |
| **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 05mStarting time 7h 15mTime 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/h2. 6 hours, A = (4 800 km)/6 h = 800 km/h3. 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  |