Lesson Plan

Grade/Class	11	Date	23/101/19
Topic	S.I UNITS AND SIGNIFICANT FIGURES	Time	58MINUTES
Unit title	THE MEASURES OF SCIENCE	Designer	PAMELA SARFO

Lesson Outcomes

Essential Understandings

The students will know:

- Units in general such as seconds, metre and kilogram.
- How to represent numbers in various decimal places and rounding of numbers.

Essential Questions

- Will rounding of numbers improve accuracy or decrease accuracy?
- Why is accuracy important in physics?

Curricular Outcomes

The student will be able to:

- know seven basic units and their accepted symbols.
- That from the basic units, they can obtain derived units.
- Represent numbers in their proper scientific notation.
- Adding and subtraction of significant figures.
- Multiplication and division of significant figures.

Cross-Curricular/Real World Connections

- Measurement of time is represented in seconds, minutes and hours.
- Measurement of mass is represented in kilogram.

Materials (ICT considered)

Resources referenced, handouts, ICT equipment, etc.

- Print the measures of science handout.
- Get notes prepared on smart board.
- Get chapter review questions printed.
- Get colour notes and extra pencils available.

Differentiation Strategies

Consider cultural diversity, adaptations, and groupings

- Students will difficulty understanding rules of significant figures will be given more examples to work. The more students work examples, the easier it gets understanding the concept of significant figures.
- I will move more to see if students are getting concept by examining their notes.

Assessment Evidence		
Assessment **FOR** learning Students will be quizzed with no marks on some examples on how to represent common notation into the proper scientific notation.	Assessment **AS** learning Students will be assigned to answer the chapter review questions and this will be submitted the following week. This part is for students to assess themselves whether, they are clear with significant digits.	Assessment **OF** learning Students will be formally assessed with 5 multiple choice question on significant figures, 5 short form answers on scientific notation and SI units.

Learning Plan	
Activating • Students will be asked to write their knowledge about measurements on the color notes provided(5mins). Then from the information I gather, I will give a little introduction about the measures of science before I start the smart board presentation(5mins). • I will share the printed notes out (3mins) • I will begin my presentation which consists of teaching all the basic SI units and the rules for significant figures. (20mins)	**Timeline** **33minutes**
Acquiring • 5 examples will be provided on the marker board for them to solve in their notes	**5minutes**

Applying • Extra 10 questions will be provided for students to solve on a sheet of paper (15 minutes) • Chapter review questions will be assigned to students. This will be submitted the following week (5 mins to give out the information)	**20minutes**

Reflections about the lesson:

- Students performed very well on the test.
- Will probably try and include videos for the visual learners next time.