مدرسة القديسة مريم الكاثوليكية الثانوية – دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Lesson Plan

Subject	**Science**
Class/ Section	**Year 7 ___**
Week	**Week 4 (19th September –23rd September)**
Work send to students by	**Google classroom**
Total number of lessons per week	**4**
Unit/Topic	**7G - The particle model**
Key Vocabulary	**Hypothesis, Predictions, Theory, Density, soluble, solute solvent,**
Learning objectives	**Lesson 1 & 2** Explain how solid, liquid are and gases are different?
Specific Intended Learning Outcomes	Recall the properties of solid, liquid and gas. Describe and compare the properties of the three states of matter. State what is meant by density, and recall its units. Identify scientific questions, hypothesis and predictions. Describe how evidence and observations are used to develop into a theory and evidence is used to support a theory.

Tasks	1. Show the AL video properties of matter which contains footage to illustrate the different properties of solid, liquid and gas. Ask the children to do question 3 to describe properties of matter. 2. Explain what is meant by density and its unit. Encourage students to compare the different materials according to its densities. Ask students to answer question 5, 7 &8 in their book. 3. Explain the scientific investigation in the class and encourage them to rearrange the steps of scientific investigation (Active teach ppt on Scientific investigation) 4. Students will read the text book page 104-105 and compare the terms Hypothesis, Predictions and theory. Ask them to solve Q: 8/pg105 to reinforce their understanding.
Assessment Criteria/ Essential questions	**Support** Question 1, 2 & 3 helps the children to list the properties of the matter. **Stretch** Question 5-8 in the students' books helps them to compare the different materials according to its densities. **Extend** Question8 /pg 105 in the student's book help them to understand the scientific investigation.
Resources	Exploring science book 7, AL video states of matter/ power point, Doodle PPT on scientific investigation.

Specific Learning objectives:	**Lesson 3 & 4:** State the particle theory of matter.
Specific Intended Learning Outcomes:	Recall that all matter is made up of particles. Describe, Draw and recognize the arrangement of particles in solids, Liquids and gases. Apply the particle theory to explain the properties of the three states of matter.
Tasks:	1. Encourage the students to read aloud the particle theory /textbook page 106 and check their understanding by asking them to write answers to textbook questions 1-3 in their notebook. 2. Let the students explore the images A/ B/ C / on Pg 106 to understand how the particle arrangement in solids, Liquids and gases. 3. Conduct Voting on particles/ Active teach activity in class to apply their knowledge of properties of matter in various situations. Do question 4 to understand what heating does to the particles. 4. Do question Number 5-7 to reinforce the knowledge of particle theory.
Assessment Criteria/ Essential questions:	**Support** Question 1 & 2 helps the children to understand particle theory. **Stretch** Question 4 in the students' books helps them understand what heating does to the particles. **Extend** Question 5-7 in the student's book helps them to analyze the different real life situations on the basis of particle theory.
Resources:	Exploring science book 7, AL video particle theory/ Doodle power point: Voting on particles