

## YEAR 10 A/D/E–CHEMISTRY (Girls)

WEEK 4 (20<sup>th</sup> Sept to 24<sup>th</sup> Sept)

Work Sent to the students through Google classroom

Topic: Moles

Resources: Text book, Worksheet, power point.

Date	Lesson	Topic	Mode of Teaching	
20/9/2020 Sunday	3	<b>Learning Objective:</b> 1.Recall that one mole of particles of a substance is the Avogadro constant number of particles. 2.Calculate the number of <b>a</b> moles of particles of a substance in a given mass of that substance and vice versa <b>b</b> particles of a substance in a given number of moles of that substance and vice versa <b>c</b> particles of a substance in a given mass of that substance. <b>Learning outcome:</b> <ul style="list-style-type: none"><li>• Define one mole of a substance.</li><li>• Use the formula <math>n=m/Ar</math> or <math>n=m/Mr</math> to calculate the moles of particles of a substance.</li><li>• Use the formula <math>m=n \times Ar</math> or <math>m = n \times Mr</math> to calculate the mass of a substance.</li></ul>	Zoom	Teacher uses power point presentation that contains the method to calculate the number of moles, number of particles and mass of a substance.
23/9/2020 Wednesday	3	<b>Learning Objective:</b> Calculate the masses of reactants and products from balanced equations, given the mass of one substance using <b>mole method</b> . <b>Learning Outcome:</b> <ul style="list-style-type: none"><li>• Calculate the mass of product formed from a given mass of reactant, using a balanced equation</li></ul>	Zoom	Teacher uses power point presentation that contains interactive questions.
24/9/2020 Thursday	2 3	<b>Learning Objective:</b> Deduce the stoichiometry of a reaction from the masses of the reactants and products. <b>Learning Outcome:</b> <ul style="list-style-type: none"><li>• Calculate the moles of reactants and products.</li><li>• Work out the equation for a chemical reaction using the masses of the reactants and products.</li></ul>	Zoom GC	Teacher uses power point presentation that contains the steps to deduce the stoichiometry of a reaction. Instruction will be given in the Google classroom to complete the Worksheet.

Home work: Solve Textbook questions SC9c(Pg77)

## YEAR 10 B/C/F–CHEMISTRY (Boys)

WEEK 4 (20<sup>th</sup> Sept to 24<sup>th</sup> Sept)

## Work Sent to the students through Google classroom

Topic: Moles

Resources: Text book, Worksheet, power point.

Date	Lesson	Topic	Mode of Teaching	
20/9/2020 Sunday	0	<b>Learning Objective:</b> 1. Recall that one mole of particles of a substance is the Avogadro constant number of particles. 2. Calculate the number of <b>a</b> moles of particles of a substance in a given mass of that substance and vice versa <b>b</b> particles of a substance in a given number of moles of that substance and vice versa <b>c</b> particles of a substance in a given mass of that substance. <b>Learning outcome:</b> <ul style="list-style-type: none"><li>• Define one mole of a substance.</li><li>• Use the formula <math>n = m / A_r</math> or <math>n = m / M_r</math> to calculate the moles of particles of a substance.</li><li>• Use the formula <math>m = n \times A_r</math> or <math>m = n \times M_r</math> to calculate the mass of a substance.</li></ul>	<b>Zoom</b>	Teacher uses power point presentation that contains the method to calculate the number of moles, number of particles and mass of a substance.
21/9/2020 Monday	2&3	<b>Learning Objective:</b> Calculate the masses of reactants and products from balanced equations, given the mass of one substance using <b>mole method</b> . <b>Learning Outcome:</b> <ul style="list-style-type: none"><li>• Calculate the mass of product formed from a given mass of reactant, using a balanced equation</li></ul>	<b>Zoom</b>	Teacher uses power point presentation that contains the steps to calculate the masses of reactants and products.
23/9/2020 Wednesday	4	<b>Learning Objective:</b> Deduce the stoichiometry of a reaction from the masses of the reactants and products. <b>Learning Outcome:</b> <ul style="list-style-type: none"><li>• Calculate the moles of reactants and products.</li><li>• Work out the equation for a chemical reaction using the masses of the reactants and products.</li></ul>	<b>GC</b>	Instruction will be given in the Google classroom to complete the Worksheet questions.

Home work: Solve Textbook questions: SC9c(Pg77)