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| SUBJECT | : Chemistry | LEVEL/SEMESTER | : (VII / 2) |
| TOPIC | : Relative Masses of Atoms and Molecules | SCHOOL YEAR | : 2017 - 2018 |
| GOALS | : Students able to understand and measure the masses of atoms and molecules | NUMBER OF MEETINGS | : (2 x 40 min.) |
| CHRISTIAN WORLDVIEW: | | | |
| <p>Whatever your hand finds to do, do it with all your might, for in the realm of the dead, where you are going, there is neither working nor planning nor knowledge nor wisdom. – Ecclesiastes 9:10</p> <p>Whatever you do, work at it with all your heart, as working for the Lord, not for human masters, – Colossians 3:23</p> | | | |

(1st Meeting, January 25, 2018 & January 26, 2018)

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| SUB-TOPIC | : Relative Atomic Mass (Ar), Relative Molecular Mass (Mr), and Relative Formula Mass |
| OBJECTIVES | : Students will determine measurement of relative atomic mass, relative molecular mass, and relative formula mass. |
| INDICATORS | : Students are able to : <ul style="list-style-type: none"> • define relative atomic mass, relative molecular mass, and relative formula mass • calculate relative molecular mass and relative formula mass |
| TEACHING PROCEDURE | : |

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| | <p>1. Elicitation/Ice Breaker</p> <ul style="list-style-type: none"> Students read page 118 and answer questions given by teacher also read ‘ChemMystery’ page 119 and answer ‘Initial Investigation’ questions page 119 of the Textbook for preparing students get new topic. <p>2. Presentation and Discussion</p> <ul style="list-style-type: none"> Students reading sub-topic 8.1 and answering Skills Practice on page 120 of the textbook. Students reading page 121 of the textbook and viewing the demonstration video of a simple beam balance and balls shown by teacher and discussing Skills Practice page 122 of the textbook to check students’ understanding about the relative atomic mass. Students reading page 123 of the textbook and discussing Skills Practice page 124 of the textbook to check students’ understanding about the relative molecular mass. Students reading page 124 of the textbook and discussing Skills Practice page 124 of the textbook to check students’ understanding about the relative formula mass. <p>3. Practice/Production</p> <p>Checking students’ understanding of key concepts that have been learnt in this meeting by using the Skills Practice questions on page 120 (number 3), 122 (number 2, 3, and 5;) and 124 (number 2a – 2d; 2g – 2h; 3; and 4) of the textbook. (DA - student who able doing this questions will be given 1+ extra point / quizzes, they do this questions in the class).</p> <p>4. Review/Conclusion</p> <ul style="list-style-type: none"> Students conclude concepts that have been learnt in this meeting by mentioning it together and understanding the Concept Link on page 126 of the textbook. |
| RESOURCES | : All About Chemistry ‘O’ Level, video simulations, and power point. |

Semarang, December 20th, 2017

Subject Coordinator

Subject Teacher

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Approved by,

Head of Tritunggal

Deputy Head 1

Christian Secondary School

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Note:

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