



Science Activity Sheet

Quarter 2- MELC 3

Week 3

Ionic Bonding



REGION VI – WESTERN VISAYAS

Science 9

Activity Sheet No. 3-Ionic Bonding

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Introductory Message

Welcome to Science Grade 9!

The **Learning Activity Sheet** is a product of the collaborative efforts of the Schools Division of Escalante City and DepEd Regional Office VI - Western Visayas through the Curriculum and Learning Management Division (CLMD). This is developed to guide the learning facilitators (teachers, parents and responsible adults) in helping the learners meet the standards set by the K to 12 Basic Education Curriculum.

The **Learning Activity Sheet** is self-directed instructional materials aimed to guide the learners in accomplishing activities at their own pace and time using the contextualized resources in the community. This will also assist the learners in acquiring the lifelong learning skills, knowledge and attitudes for productivity and employment.

For learning facilitator:

The **Science Activity Sheet** will help you facilitate the leaching-learning activities specified in each Most Essential Learning Competency (MELC) with minimal or no face-to-face encounter between you and learner. This will be made available to the learners with the references/links to ease the independent learning.

For the learner:

The **Science Activity Sheet** is developed to help you continue learning even if you are not in school. This learning material provides you with meaningful and engaging activities for independent learning. Being an active learner, carefully read and understand the instructions then perform the activities and answer the assessments. This will be returned to your facilitator on the agreed schedule.

Name of Learner: _____
Grade and Section: _____ Date: _____

SCIENCE 9 ACTIVITY SHEET

Ionic Bonding

I. Learning Competency with Code

Explain how ions are formed. **(S9MT-Ile-f-16)**

II. Background Information for Learners

Why is your environment very important? Why do you need to take care of it? Why do you need to conserve it? Exactly! because you can't live without it. This is where you live in. Almost everything that you need in life in order to survive is taken from it. Environment gives you our basic needs such as water, air, food, shelter and even clothes that you are wearing. These are the things that you need from it to make you feel stable. That's why in return, you have to give your love for it to make it stable as well.

This happens also to ionic bonding. In ionic bonding, the two atoms give and take electrons to attain stability. But how does it take place in this case? You will find it out as we go through this Learning Activity Sheet and continue reading the concept on p. 118 of Science Grade 9 Learner's Material.

III. Accompanying DepEd Textbook

Department of Education. (2014) K-12 Basic Education Curriculum,
Science 9 Learner's Material (pp.118-119). Pasig City, Philippines

IV. Activity Proper

Directions: Refer to Activity 3 Bonding by Transfer of Electrons Science 9 Learner's Material, p. 151. Answer the guide questions. Write your answer on a separate sheet paper.

V. Reflection

How is ionic bonding important in our daily lives?

VI . Answer Key

1. Metals form cations because they completely transfer or give away electrons.
2. Non-metals form anions because they attract electrons towards themselves.
3. Ions form after ionic bonding because this type of bond involves complete transfer of electrons.
4. Yes, after ionic bonding the participating atoms attain the stable electronic configuration of the nearest noble gas.
5. Ionic bonding will take place between metal and non-metal with electronegativity difference of greater than 1.9.

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