LESSON PLAN INTEGRATED SCIENCE

Composed by :

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TOPIC : LIVING THINGS

JUNIOR HIGH SCHOOL GRADE VII/SEMESTER 1

**LESSON PLAN**

Educational Unit : Junior High School 2 Wangon

Subject : Science

Class/Semester : VII (Seven)/I (Gasal)

Theme : Classification Of Things

Topic : Living Things

Sub Topic : Characteristic Of Living Things

Time : 1 x 25 minutes ( 1x Meeting )

1. **CORE COMPETENCE**
2. Appreciate and practice the teachings of their religion.
3. Respect and appreciate the honest behavior, discipline, responsibility, caring (tolerance, mutual assistance), mannered, confident, in interacting effectively with the social and natural environment within reach of the association and its existence.
4. Understand of knowledge (factual, conceptual and procedural) by curiosity about science, technology, art, cultural phenomena and events related to the visible.
5. Try, process, and present in the realm of the concrete (use, parse, compose, modify, and make) and the realm of the abstract (writing, reading, counting, drawing, and writing) in accordance with the learned in school and other sources in the same viewpoints / theories.
6. **BASIC COMPETENCE**

1.1 Admire the order and complexity of God's creation on the physical and chemical aspects of life in the ecosystem, and the role of humans in the environment and make it happen in practice the teachings of their religion.

2.1 Demonstrate behavioral science (curiosity; objective; honest; careful; meticulous; diligent; careful; be responsible; open; critical; creative; innovative and caring environment) in their daily activities as a form of implementation of the attitude of doing experiment and discussion.

2.2 Appreciate the work of individuals and groups in their daily activities as a form of implementation conducting experiments and report experimental results.

2.3 Demonstrate thoughtful and responsible behavior in their daily activities as a form of implementation of the attitude in choosing healthful foods and beverages and do not damage the body.

2.4 Show appreciation to others in their daily activities as a form of implementation of the award to people who sell healthy food without additives dangerous mix

3.2. Identification the characteristic of living things and non-living things

4.2. Serve the result of observation about living things and non-living things

1. **LEARNING OBJECTIVES**
2. Students can describe the characteristic of living things.
3. Students can explain the different of living things and non-living things.
4. **INDICATORS OF LEARNING**
5. Describe the characteristic of living things with honesty and responsibility.
6. Explain the different of living things and non-living things with a true understanding of the concept and found the inquiry.
7. **MATERIALS**

**What does it mean to be alive?**

**What is an organism?**

An **organism** is an individual form of life. A tree is an organism and so is yeast. So are you. What makes something alive? As with many questions in science, the answer is not easy and is still argued among scientists. If you’ve ever had a cold or the flu, you’re familiar with the effects of viruses. Viruses are very tiny things that have some of the characteristics of living things, but are not

considered alive by many scientists.

**The characteristics of living things**

So what makes something alive? Having a set of rules is a good way to get closer to the answer. Biologists often use seven basic rules to classify something as living or nonliving.

**Five Characteristics of Living Things**

1. Living things **respond** to their surroundings.

2. Living things **grow** and **develop**.

3. Living things are able to **reproduce**.

4. Living things **use energy**.

5. Living things are **movement.**

6. Living things are **excretion**.

7. Living things are **respiration**.

**Response and stimulus**

Have you ever gone from a dark room out into the sunshine? Yourespond by squinting your eyes. The brightness of the sun is calleda stimulus and your reaction to it is called a response. All livingthings respond to a stimulus.

**Growth**

You may think of growth as an increase in size. You have increased in size since you were born. Growth also refers to an increase in mass and to an increase in number of cells.

**Reproduction**

The process of making more of the same kind of organism is called reproduction. Because all living things eventually die, reproduction allows life to continue.

**Energy**

All living things take materials from their surroundings such as food, water, and gases. They use these materials to get energy. This energy is needed to carry out all of the life functions.

**Movement**

All living things move. Animals move around to get from place to place. Plants turn towards the light and their roots grow into the soil.

**Excretion**

All living things excrete. Waste products are removed from the body. Plants and animals both have to get rid of waste gas and water.

**Respiration**

Plants and animals use oxygen in the air to turn food into energy.

1. **APPROACHMENT/STRATEGY/ LEARNING METHOD**
2. Approachment : Scientific Approach
3. Method : Discussion, Presentation
4. Model : Problem Based Learning
5. **ALAT, BAHAN, MEDIA DAN SUMBER BELAJAR**
6. Equipment : -
7. Materials : Living things ( plant) and non-living

things (rock, pencil)

1. Media : Characteristic of living things video
2. Source :
3. Karim, Saeful. 2009. *Membuka Cakrawala Alam Sekitar Untuk Kelas VII.* Jakarta : Pusat Perbukuan, Departemen Pendidikan Nasional.
4. Kementerian Pendidikan dan Kebudayaan. 2013. *Ilmu Pengetahuan Alam Untuk SMP/MTs Kelas VII.* Jakarta : Katlog Dalam Terbitan ( KDT ).
5. Noviany, Ranny. 2014. *IPA TERPADU Untuk SMP-MTs Kelas VII*. Bandung : Yrama Widya.
6. Sugiyarto, Teguh. 2008. *Ilmu Pengetahuan Alam 1 Untuk SMP/MTs Kelas VII*. Jakarta : Pusat Perbukuan, Departemen Pendidikan Nasional.
7. **LEARNING ACTIVITY**

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Steps | Description | Time Allocation |
| Open the lesson | Teacher orient students on issues | Creating a situation (Stimulation)  Concentration:   1. Teacher greeting and open class with prayer 2. Teacher give students the attention and motivation to follow the spirit of the lesson 3. Teacher presents the objectives and benefits of studying characteristic of living things 4. Teacher give apperception. | 3 minutes |
| Core activity | 1. Teacher organize students to learn 2. Teacher guide students in group investigation to gather the appropriate information 3. Students Develop and present worksheet 4. Teacher and students analyze and evaluate the problem solving process | **Observe :**   * Students watch images or videos about living things   **Ask :**   * What is the living things? * What is the different of living things and non-living things?   **Explore :**   * Students make a group consist of 3 to 4 students * Students explore knowledge by video   **Association :**   * Each group received a different of living things * Students discuss in groups about the characteristic of living things   **Communication :**   1. Students present the results of discussions | 17 menit |
| Close |  | 1. Students and teacher review the results of learning activities 2. Teacher give rewards (ex, praise or other relevant form of respect) to the group that performs well 3. Teacher and students conclude the material 4. Teacher close the lesson with pray | 5 menit |

**I. EVALUATION**

A. Using the words above, complete the sentences below:

1. All living things need.................................to drink.
2. All living things need to eat....................................
3. All living things require.............................to live in.
4. All plants require.......................................to grow.
5. All living things need to breathe.....

B. List 5 Living Things :...................................................................................

**The Answer:**

**A. 1. Water**

**2. Food**

**3. Shelter**

**4. Sunlight**

**5. Air**

**B. Human Trees, Sun flower, Cow, Cat, Rabbit and the other plant and animal.**

**Score = Right Answer x 100**

**Maximum score**

Wangon, 11 May 2016

Know,

Head Master Teacher

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