

# UNIT – 1

## THE SCIENCE OF BIOLOGY

### 1.1 The Methods of Science

#### What is the science of Biology?

- ✓ Biology is the science of life and all living things from unicellular bacteria to multicellular organisms.
- ✓ Biology comprises several branches of study dealing with wide ranges of sciences. For example
  - Astrobiologist - try to find evidences of life on other planets
  - Biomedical researchers – dealing with the development of new drugs and vaccines
  - Microbiologist - engage in all forms of microorganism life and their functions.
  - Paleobiologists – biologists engaged in finding out the way how life began on earth and how the present complex life forms evolved from simple life form by using evidences from fossils and chemistry of ancient rocks.

#### What is science?

- ✓ Science is a unique system of acquiring knowledge using scientific method. Both research types (applied research and basic research/experimental research) generate scientific knowledge by using scientific methods. Discuss how Gregor Mendel and Issac Newton formulated the law of inheritance and the law of gravitation respectively.
- ✓ Scientists first suggest possible explanations for new or existing phenomena, and, then collect evidences to prove or disprove their suggested explanations by using specific approach called scientific method.

#### Scientific Method

- ✓ It is an approach or process by which scientists test their suggested explanations. Ancient people use observation to explain events around them without testing their ideas. The commonest example is “*the theory of spontaneous generation of life*”, which suggest that non-living objects can give rise to living organism.

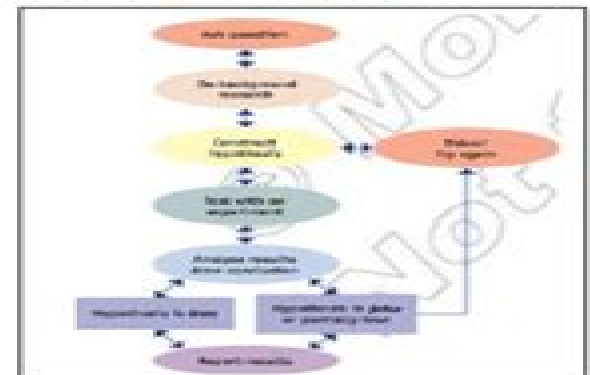
Example 1- the large number of frogs in the Nile Delta of Egypt during spring was believed to be created from the muddy soil itself.

Example 2: The creation of flies from decayed meat

#### Steps of scientific method

The major steps in a scientific method are the following.

- Ask question / Identification of problems
- Do background research
- Formulate hypothesis
- Design and conduct an experiment test the hypothesis



# Grade 11 Biology Study Guide

**Joacim Rocklöv**



## **Grade 11 Biology Study Guide:**

## The Enigmatic Realm of **Grade 11 Biology Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Grade 11 Biology Study Guide** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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