

STEPPING STONE  
SCHOOL (HIGH)

**CLASS :6**

**Subject: Physics**

**Date: 27/04/2020**

**Topic: Science and its importance**

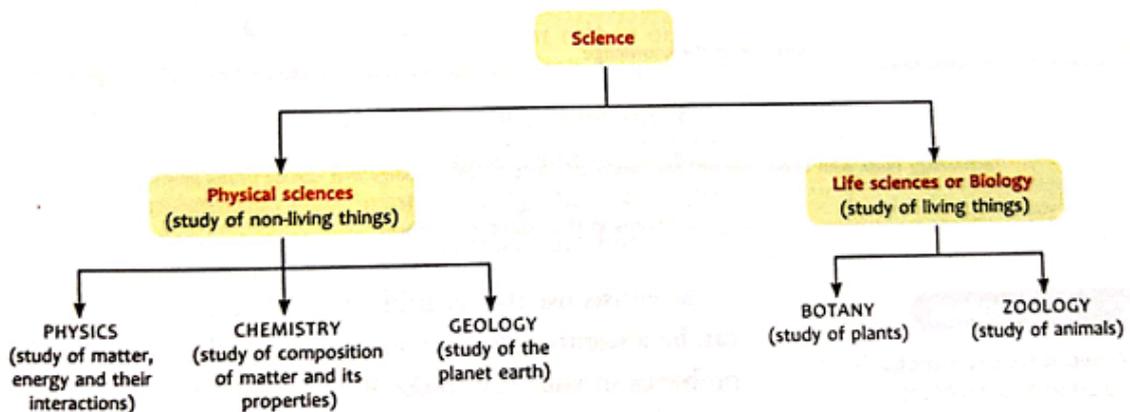
**Time Limit: 30 min**

***Worksheet No. :1***

*[Copy the questions and solve them on a sheet of paper date wise. Keep the worksheets ready in a file to be submitted on the opening day.]*

**Introduction:-**The systematic study of the natural world through observation and experiments is known as Science.

### Different branches of Science



The systematic way to ask questions and find their answer through observations and experiments is known as the scientific method.

The steps that are followed in the scientific method are given below:-

- i. Identifying the problem
- ii. Doing background research ( read, get advice)
- iii. Developing a hypothesis (Make an assumption or prediction for possible answer )
- iv. Experimentation and verification ( test assumption and record the data )
- v. Organizing data
- vi. Drawing conclusion ( Analyse data )
- vii. Application ( Making use of the knowledge )

**Physics is the branch of science that deals with the study of matter, energy and their interactions.**

**The study of physics played an important role in our day to day lives by building the foundation of modern technology in the field of transport, Communication, Electricity, Space exploration etc.**

**Branches of Physics-**

The growth of Physics has made it necessary to divide it into many branches of study, some of which are given below:

- i. **Mechanics:** the study of motion of object.
- ii. **Acoustic:** the study of sound.
- iii. **Optics:** the study of behaviour of light.
- iv. **Astronomy:** the study of celestial object.
- v. **Thermodynamics:** the study of heat.
- vi. **Electromagnetism:** the study of electricity and magnetism.
- vii. **Nuclear physics:** the study of atomic nuclei....and many more.

**Questions for practice:**

**A. Fill in the blanks.**

- i. The systematic study of the natural world through \_\_\_\_\_ and \_\_\_\_\_ is known as science
- ii. The branch of science deal with study of plants is known as \_\_\_\_\_.
- iii. The study of sound is known as \_\_\_\_\_.
- iv. The branch of physics that deals with the study of electricity and magnetism is known as \_\_\_\_\_.

**B. Answer the following question in short.**

- i. What do you understand by the term 'science'?
- ii. Define 'scientific method'.
- iii. What are the different steps involved in the scientific method?
- iv. What role is played by physics in communication? [ Thinking Skill ]

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