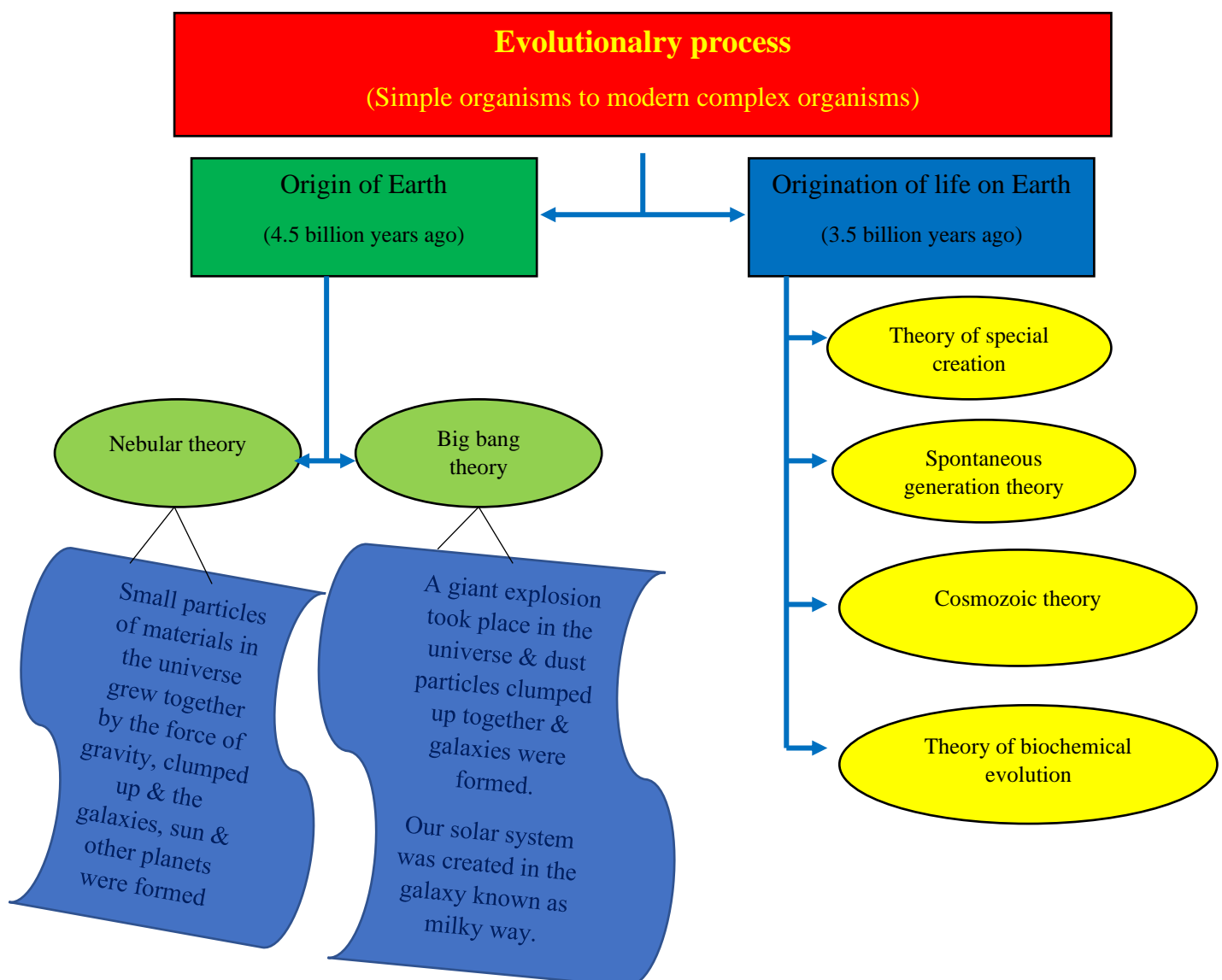


Subject	:	Science
Grade	:	Grade 9
Term	:	2 nd Term
Unit	:	9 - Evolutionary processes
Competency	:	Explores life and life processes in order to improve productivity of biological systems.
Competency level	:	Explores the importance of the evolutionary process in bio-diversity
Content	:	Through lesson you will be able to explore about the origin of the Earth, origin of life on Earth and the evolutionary process.

Activity 1

Study the note given below well. It is about the ideas and opinions that have been put forward regarding the origin of the Earth and origin life on the Earth. Answer the questions asked regarding it.

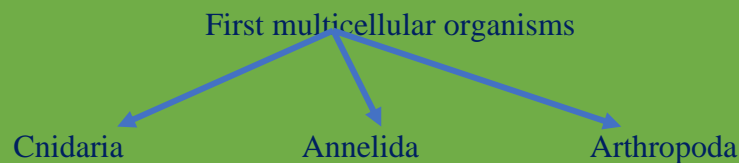


- According to the above note, put (✓) if the statements are correct and (X) if the statements are incorrect.

1. The origin of life and the origin of the Earth occurred at the same time. ()
2. The origin of the Earth took place billion years before the origin of life. ()
3. The Big Bang theory explains the origin of life. ()
4. Spontaneous generation theory is a theory on origin of life. ()
5. Both origin of the Earth and origin of life on the Earth are important for the evolutionary process. ()
6. According to Big Bang theory, planets, including the Earth, were created by the gravitational pull of particles in the universe. ()
7. There's a belief that life originated on the Earth due to a biochemical process. ()
8. The gradual evolution from the earliest simple organisms to the present complex organisms is called evolution. ()

The sequence of life on earth according to the biochemical evolution is as follows.

Unicellular bacteria → Unicellular algae → Multicellular organisms



Sequence of origin of multicellular organisms

Fish → Amphibians → Reptiles → Aves → Mammalia

Activity 2

Let's create a fossil

Required materials:

- A rubber glove or a balloon
- Newspapers
- Glue

Method:

1. Tear newspapers into smaller pieces.
2. Soak them in water.
3. Inflate a rubber glove or a balloon and tie it well.
4. Apply a layer of wet papers on it.
5. Apply glue over that layer and apply another layer of papers over it.
6. Accordingly, apply a few layers.
7. Keep the glove or the balloon to dry well.
8. When its dried well, remove the air inside.



Living fossils

The animals who retain the physical properties unchanged over millions of years are known as living fossils.

Examples:



Dragonfly



Coelacanth



“ginihota”

Summary & evaluation

- Select the suitable words for the blanks in this paragraph from the following words based on your activities.

The origin of the earth began about (a) years ago. The origin of the life on Earth dates begun about (b)..... Various (.) have been presented on the origin of life. As the first living thing on earth (d) were created. The development occurred up to modern living organisms with the adaptations to the continuous change in environment is known as (e).....(f) provide important evidences regarding evolution. The study of fossils in the rock layers provides an idea on (g).....(h) of Earth can be seen due the evolutionary process

(Biodiversity / 4.5 billion / beliefs / unicellular/ 3.5 billion / fossils/evolution / evolution of living things)