

1º ESO BIOLOGY AND GEOLOGY

You must answer the following questions and study the topics:

- 1.- Define: cell, bacteria, cyanobacteria, tissue, organ, homeostasis, photoautotroph, chemoautotroph.
- 2.- Differences between prokaryotic and eukaryotic cells.
- 3.- Explain the three main features that all cells have.
- 4.- Draw a bacteria, label its components and describe the characteristics of a bacteria and the function of its components.
- 5.- Draw an animal and a plant cell, and explain the main differences between them, label their components and write the function of them.
- 6.- Definition of living thing, heterotroph, and autotroph. Indicate whether the following organisms are autotroph or heterotroph: Animals, fungi, algae, plants, protozoa, bacteria, cyanobacteria.
- 7.- Describe the following steps of the sexual reproduction in plants:

Pollination

Fertilization

Seed and Fruit formation

Seed dispersal and germination

- 8.- Describe the nervous system in invertebrates, in vertebrates and in jellyfish

- 9.- Complete the following table:

KINGDOM	CELL TYPE	NUMBER OF CELLS	SPECIALIZED TISSUES	TYPE OF NUTRITION	ROLE IN ECOSYSTEM	EX. OF LIVING THING
MONERA						
PROTISTA						
FUNGI						
PLANTAE						
ANIMALIA						

- 10.- The Sun, define it and explain how it works
- 11.- Which theory explains the beginning of the entire universe? Explain it.
- 12.- Define: Planetary System, Gravity and Solar System, Sun, Planet.

13.- Name the planets of the Solar System. Which of them are rocky and which of them are gaseous and why?

14.- Explain how the Solar System was formed.

15.- Name and explain the theories that explain the Moon formation. Which is the most favored by the scientific community nowadays?