

TOPICS OF SCIENCE 1º ESO BRITISH COUNCIL

GEOLOGY .

Topic: The Earth in Space.

- The old theories of space exploration.
- Components of the universe and their dimensions; galaxies, stars, the solar system, planets and satellites.
- The earth; Movements of the earth, the seasons.
- The moon , eclipses and the phases.

PHYSICS AND CHEMISTRY

Topic: MATTER

- General properties of matter: mass volume and density. Specific properties.
- Solids, liquids and gases. Properties.
- Particle theory of solids, liquids and gases.

Topic: SUBSTANCES AND MIXTURES:

- Pure substances and mixtures. Homogeneous and heterogeneous mixtures.
- Separating mixtures. Sieving , decanting and filtering. Solutions. Distilling
- Water. Properties. Changes of state. Water in nature. Sea water as a solution.

Topic: ATOMS AND MOLECULES:

- Atoms and molecules. Elements and compounds. Symbols.
- Hydrogen and helium (and known elements).
- Introduction to acids and alkalis

GEOLOGY

Topic: The Earth's Atmosphere

- The origin and composition of the air.
- The structure of the atmosphere.
- Variation in the composition of the air.

Topic:The Solid Earth : Layers of the Earth, Rocks and Minerals

- The structure of the Earth's layers
- Rocks, minerals and other components. Uses of rocks and minerals
- The Rock cycle

BIOLOGY

Topic: Living Things

- Characteristics of the most common living beings. Life processes.

Topic: What are Living Things Made From? Biochemistry.

- Important factors for the possibility of life on our planet
- Biochemical elements.

Topic: What are Living Things Made From? Cells

- The theory of cells. The organisation of living beings.

Topic: The Five Kingdoms:

- Introduction to taxonomy. The Five Kingdoms : classification of living beings
- Micro organisms as living beings. Life on land and in water
- Vegetable kingdom. Plants : feeding and reproduction
- Animal Kingdom. The five groups of vertebrates
- Organ systems in humans and animals -Position and functions of organs

Topic: Environment and feeding relationships

- Habitats--Introduction to food webs

Topic: Humans and the Environment.

- Carbon dioxide and the ozone layer: environmental issues
- Contamination and health issues

