

ARMENIAN EVANGELICAL CENTRAL HIGH SCHOOL

Grade 6 (Science)

At the end of grade 6 the student should be able to:

Unit 1

- Locate the different parts of a microscope.
- Use a microscope.
- Prepare a slide.
- Prepare a slide of a green plant cell and a non-green plant cell.
- Locate the main structures of the 2 types of plant cells.
- Compare and differentiate between a green plant cell and a non-green plant cell.
- Experiment with the conducting vessels.
- Draw a flower and name the different parts.
- List and explain the different steps of the sexual reproduction in plants.
- Compare between sexual and vegetative reproduction.
- Discuss the role of humans in plant reproduction (Layering, cutting, cross fertilization)

Unit 2

- Draw an animal cell.
- Locate the different parts of an animal cell.
- Prepare slides of cheek cell.
- Compare between a plant cell and an animal cell.
- Conclude that the cell is the basic unit of structure and function of all living things.
- Explain animal reproduction.
- Compare between unicellular and multicellular animals and their reproduction.

Unit 3

- Explain that our body is made up of different types of cells.
- Tell the hierarchy of the human organization. (cell - tissue - organ - system organism)
- Draw a neuron and label its parts.
- Tell how the nervous system is organized.
- Tell how a nervous message is propagated from receptors to effectors.
- differentiate between voluntary and involuntary actions.
- Label the excretory system.
- Locate the different parts of the skin.
- Tell the different functions of the skin.
- Compare the elimination of liquid waste according to seasons.
- Locate some endocrine glands on the body.
- Tell their function.
- Relate the role of some endocrine glands to puberty

Unit 4

- Tell or name the components of the environment.
- Talk about the interaction between humans and the environment.
- Prepare a poster about forms of pollution.
- Discuss ways by which humans protect plants.
- Explain the different types of pollution (air - water - land).
- Differentiate between resources.
- List ways by which man fights against pollution.

Unit 5

- Prepare a natural indicator by red cabbage.
- Use natural and synthetic indicators.
- Differentiate between acids, bases and salts by indicators.
- Solve problems about indicators.
- Define reactants and products.
- Explain chemical reactions like rusting, combustion of magnesium, limewater.
- Explain the law of mass conservation.
- Explain what weight is.
- Deduce that weight is a force.
- Deduce that weight varies with altitude and latitude.
- List the instruments used to measure mass and weight.
- Tell the units of mass and weight.
- Solve problems by using the formula $W = m \times g$.
- Define what work is in the scientific sense.
- Use the formula $W = F \times d$ and solve problems.
- Define power.
- Use the formula $P = W / t$ and solve problems.