

The ESCAPE Projects



Somalia Science Curriculum Topics

| | Grade 6 | Grade 7 | Grade 8 |
|------------------------------------|--|---|--|
| STEM Skills and Connections | n/a | WHMIS training | n/a |
| Life Systems | <ul style="list-style-type: none"> • Diseases (Meningitis, TB, Cholera, Typhoid, etc.) • Different types of respiratory system (mammals, fish, and birds) • Digestive system • Plant systems | <ul style="list-style-type: none"> • Nutrition (Carbohydrates, protein, vitamins, etc.) | <ul style="list-style-type: none"> • Bacterial diseases • Viral diseases • Side effects and symptoms of different medications • Reproduction and embryology • Photosynthesis • Plant system (Roots, Stem, Xylem, Phloem) • Plant cell system • Eye structure |
| Matter and EnergyAlgebra | <ul style="list-style-type: none"> • Optics (concave, convex, rays) • combustion • Speed of light • Forces • Structures of atoms • Water cycle | <ul style="list-style-type: none"> • Magnetism • Atomic properties • Atomic shells • Renewable Energy/Resources • Solubility/Solvent/Solute • Calorimetry | <ul style="list-style-type: none"> • Conduction, convection, and radiation • Identifying, balancing, and writing chemical equations • Ionic and covalent bonds • Cations and anions • Acids and bases • Neutralization reactions |
| Structures and Mechanisms | <ul style="list-style-type: none"> • Open and closed systems • Simple machines (lever, incline planes, screw, gear, wheel & axle, pulley) | <ul style="list-style-type: none"> • Electric circuits • Forces • Work • Rays and reflection | <ul style="list-style-type: none"> • Rays and reflection • Optics • How eyesight issues occur (near sighted/far sighted) • Work and power |
| Earth and Space Systems | <ul style="list-style-type: none"> • Agricultures • Climates • Rocks | <ul style="list-style-type: none"> • Water filtration system • Solar System (planets and their characteristics) • Stars and their characteristics • Meteroids and asteriods (their characteristics) | <ul style="list-style-type: none"> • Earth composition (water: salt/fresh, land) |