WORTHINGTON CHRISTIAN SCHOOLS

Curriculum Map: Mid-level Science

Essential Questions	Grade Level Scope and Sequence
1. How do we design and evaluate scientific investigations that reveal truth about the world around us? 2. Why are molecular structures studied across biological systems? 3. How do we relate the purpose of individual parts of an organism to its overall function? 4. How can we explain the structure, properties, and interactions of matter and energy? 5. How does an understanding of the natural world prove it to be a created world? 6. How do we cultivate problem solving and critical thinking skills to apply science knowledge to decision making about science, bioethical and technological issues? 7. How can the interaction between objects be described by forces? 8. How does the world around us demonstrate that energy, momentum, and matter are conserved and yet transferrable?	5th grade: 1. Life – cells, body systems, heredity, ecosystems 2. Nature of Science – scientific processes 3. Physical – energy, waves 4. Earth – natural resources, oceans, universe 6th Grade 1. Astronomy – stars, sun, moon, planets 2. Chemistry – periodic table, classification of matter 3. Nature of Science – scientific processes 4. Physical – motion in space 5. Energy – sound, light, electricity 7th Grade 1. Nature of Science – scientific processes 2. Cells and cell processes 3. Genetics, heredity and classification 4. Microorganisms 5. Fungi, plants, animals 8th Grade 1. Inside Earth – minerals, rocks, plate tectonics, earthquakes, volcanoes 2. Earth's changing surface – weathering, erosion, deposition 3. Atmosphere – weather and climate 4. Motion and Machines 5. Energy and Waves 6. Electricity 7. Chemistry