

MICHIGAN CURRICULUM FRAMEWORK SCIENCE BENCHMARKS (2000)

STRAND III Using Scientific Knowledge in Life Sciences

Standard 111.2 Organization of Living Things (LO)

Elementary

All students will use classification systems to describe groups of living things

1. Explain characteristics and functions of observable body parts in a variety of animals.

Observable characteristics; functions

2. Compare and contrast (K–2) or classify (3–5) familiar organisms on the basis of observable physical characteristics.

All students will investigate and explain how living things obtain and use energy.

4. Compare and contrast food, energy, and environmental needs of selected organisms.

Standard 111.4 Evolution (LE)

All students will compare ways that living organisms are adapted (suited) to survive and reproduce in their environment.

2. Explain how physical and behavioral characteristics of animals help them to survive in their environment.

Standard III.5 Ecosystems (LEC)

All students will explain how parts of an ecosystem are related and how they interact.

1. Identify familiar organisms as part of a food chain or food web and describe their feeding relationships within the web.

All students will explain how energy is distributed to living things in an ecosystem.

2. Describe the basic requirements for all living things to maintain their existence.

STRAND IV Using Scientific Knowledge in Physical Science

Standard IV.1 Matter and Energy (PME)

All students will measure and describe the things around us.

1. Classify common objects and substances according to observable attributes/properties.

Standard IV.4 Waves and Vibrations (PWV)

All students will explain shadows, color, and other light phenomena.

3. Use prisms and filters with light sources to produce various colors of light.