

Texas Essential Knowledge and Skills (TEKS)

Connecting to Monarch Migration

K(4) Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:

- (A) collect information using tools, including computing devices, hand lenses, primary balances, cups, bowls, magnets, collecting nets, and notebooks; timing devices; non-standard measuring items; weather instruments such as demonstration thermometers; and materials to support observations of habitats of organisms such as terrariums and aquariums; and
- (B) use the senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.

2(3) Scientific investigation and reasoning. The student knows that information and critical thinking, scientific problem solving, and the contributions of scientists are used in making decisions. The student is expected to:

- (A) identify and explain a problem and propose a task and solution for the problem;
- (B) make predictions based on observable patterns; and
- (C) identify what a scientist is and explore what different scientists do.

2(9) Organisms and environments. The student knows that living organisms have basic needs that must be met for them to survive within their environment. The student is expected to:

- (A) identify the basic needs of plants and animals;
- (B) identify factors in the environment, including temperature and precipitation, that affect growth and behavior such as migration, hibernation, and dormancy of living things; and
- (C) compare the ways living organisms depend on each other and on their environments such as through food chains.

2(10)(C) Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to investigate and record some of the unique stages that insects such as grasshoppers and butterflies undergo during their life cycle.

3(3) Scientific investigation and reasoning. The student uses critical thinking and scientific problem solving to make informed decisions. The student is expected to:

- (A) analyze, evaluate, and critique scientific explanations by using evidence, logical reasoning, and experimental and observational testing;
- (C) connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.

7(11) Organisms and environments. The student knows that populations and species demonstrate variation and inherit many of their unique traits through gradual processes over many generations. The student is expected to:

- (A) examine organisms or their structures such as insects or leaves and use dichotomous keys for identification;
- (B) explain variation within a population or species by comparing external features, behaviors, or physiology of organisms that enhance their survival such as migration, hibernation, or storage of food in a bulb;