

Teaching Unit: *Insects & Creepy Crawlers*

Essential Understandings

Insects and creepy crawlers are a part of the natural world.

Insects have specific identifiable characteristics.

Sub Topic:

Knowledge and Skills

Label a diagram of an insect that includes head, thorax, abdomen, legs, wings, antennae, and eyes.

Label a life cycle that includes egg, larva, pupae, and adult.

Compare/contrast moths and butterflies, spiders and insects.

Know terminology: thorax, abdomen, antennae, chrysalis, cocoon, larva, pupa, life cycle, observations, sequence.

Teaching Unit: *Balance and Motion*

Essential Understandings

The motion of objects can be changed by various forces.

The trick to balancing anything is to add counterweights below the balance point.

Sub Topic:

Knowledge and Skills

Investigate a variety of ways objects move.

Demonstrate that the motion of an object can be changed.

Problem-solve by adjusting counterweights to help an object balance and/or move.

Know terminology: balance point, stable, unstable, stabilize, counterweight, position, system, rotates, axle, ramp, runway, slope, and spiral.

Teaching Unit: *Sink and Float*

Essential Understandings

The physical characteristics of an object (weight, size, shape, material, etc.) determine whether it will sink or float.

Sub Topic:

Knowledge and Skills

Describe some physical properties (size, shape, weight, material) of objects that sink or float.

Sort objects that float or sink.

Know terminology: properties, cargo.