IXL Skill Plan

Alabama Course of Study (adopted in 2023): Grade 2

Use IXL's interactive skill plan to get up-to-date skill alignments, assign skills to your students, and track progress.

www.ixl.com/science/skill-plans/alabama-course-of-study-adopted-in-2023-grade-2

Matter and Its Interactions

Structure and Properties

1: Plan and carry out investigations to compare, contrast, and classify various solid and liquid materials according to physical properties, including color and texture.

Properties

1. Identify properties of an object 56B
2. Compare properties of objects 59L
3. Compare properties of materials 23V

Solids and liquids

4. Classify matter as solid or liquid QJK
5. Identify solids and liquids 5QF

2: Conduct investigations to determine suitable uses of natural and manufactured materials based on their observable properties, including strength, flexibility, hardness, absorbency, and texture.

1. Compare properties of materials 23V
2. Identify materials in objects P97

Physical and Chemical Changes

3: Demonstrate and explain how structures made from a small set of pieces can be disassembled and then reassembled as new and different structures.

1. Identify multiple materials in objects MUY

4: Provide evidence that some changes in matter caused by heating or cooling can be reversed and some changes are irreversible.

1. Changes caused by heating and cooling 36H
2. Change-of-state diagrams: solid and liquid NJ6
3. Change-of-state diagrams: liquid and gas K5C
4. Change-of-state diagrams: solid, liquid, and gas WCW
5. Heating, cooling, and changes of state: melting and freezing 8B4
6. Heating, cooling, and changes of state: evaporating and condensing R2V

Ecosystems: Interactions, Energy, and Dynamics

Interdependent Relationships

5: Plan and carry out an investigation, using one variable at a time, to determine how each variable affects plant growth.

6: Design and construct models to simulate how animals disperse seeds or pollinate plants.

Flowering plants

1. How do flowering plants make new plants? 2CK

Pollination

2. Pollinator: ruby-throated hummingbird UBC
3. Pollinator: Indian flying fox VMK
4. Pollinator: painted lady butterfly X7R

Seed dispersal

5. Seed disperser: Eurasian red squirrel WVX
6. Seed disperser: African elephant HY8
7. Seed disperser: common ostrich KMX

Biodiversity

7: Obtain information to explain that there are many different kinds of living things that exist in habitats on land and in water.

Classification

1. Identify plants and animals U7K
2. Identify mammals, birds, fish, reptiles, and amphibians BX5
3. Identify animals with and without backbones G9X

Animals

4. Where do dromedary camels and polar bears live? 7XW
5. Where do giraffes and beavers live? JQY
6. Where do whale sharks and tree frogs live? ZVM

Plants

7. Where do turtle grass and giant sequoias live? TPC
8. Where do water lilies and saguaros live? 68Z

9. Where do bearberries and powdery strap air plants live? MCR

Traits

10. Observe traits C96
11. Observe and compare traits RTT

Earth's Systems

Physical Features

8: Use models to distinguish between the shapes and kinds of land and water on Earth.

1. Water on Earth YDW
2. Identify Earth's land features HE2

Water

9: Obtain information to identify where water is found on Earth and determine whether it is a solid or a liquid.

1. Bodies of water 6ZK
2. Water on Earth YDW

Changes Over Time

10: Use a variety of sources to provide evidence that Earth's events can occur slowly or rapidly.

1. Classify changes to Earth's surface DCZ
2. Find evidence of changes to Earth's surface GYZ
3. Changes to Earth's surface: earthquakes T5U
4. Changes to Earth's surface: volcanic eruptions CQ7
5. Changes to Earth's surface: erosion DBK
6. Evaluate multiple design solutions to prevent erosion PH6

Human Impact

11: Evaluate multiple solutions designed to slow or prevent wind or water from changing the shape of Earth's surface.

1. Changes to Earth's surface: erosion DBK
2. Evaluate multiple design solutions to prevent erosion PH6