



Second Grade Science

Here is a list of all of the Science Skills students learn in Second Grade.

A. Materials

1. Identify properties of an object
2. Compare properties of objects
3. Compare properties of materials
4. Identify materials in objects
5. Identify multiple materials in objects

B. States of matter

1. Classify matter as solid or liquid
2. Identify solids and liquids
3. Classify matter as solid, liquid, or gas
4. Identify solids, liquids, and gases
5. Sort solids, liquids, and gases

C.Changes of state

1. Change-of-state diagrams: solid and liquid
2. Change-of-state diagrams: liquid and gas
3. Change-of-state diagrams: solid, liquid, and gas
4. Heating, cooling, and changes of state: melting and freezing
5. Heating, cooling, and changes of state: vaporizing and condensing

D.Heat

1. Predict heat flow

E.Physical and chemical change

1. Identify physical and chemical changes

F.Mixtures

1. Identify mixtures

G.Force and motion

1. Identify pushes and pulls
2. How do mass and force affect motion?
3. Compare the speeds of moving objects

H.Magnets

1. Identify magnets that attract or repel
2. Label magnets that attract or repel

I. Classification

1. Identify living and nonliving things
2. Identify plants and animals
3. Identify mammals, birds, fish, reptiles, and amphibians
4. Identify animals with and without backbones

J. Animals

1. Read animal life cycle diagrams
2. Construct animal life cycle diagrams
3. Pollinator: ruby-throated hummingbird
4. Pollinator: Indian flying fox
5. Pollinator: painted lady butterfly
6. Seed disperser: Eurasian red squirrel
7. Seed disperser: African elephant
8. Seed disperser: common ostrich

K. Plants

1. Classify fruits and vegetables as plant parts
2. Identify plant parts and their functions
3. Read and construct flowering plant life cycle diagrams
4. How do flowering plants make new plants?

L. Traits

1. Observe traits
2. Observe and compare traits
3. Introduction to adaptations

M. Rocks and minerals

1. Classify rocks and minerals by color and shape

N. Weather

1. Read a thermometer
2. Compare temperatures on thermometers

O. Earth's features

1. Water on Earth

P. Earth events

1. Classify changes to Earth's surface
2. Find evidence of changes to Earth's surface
3. Changes to Earth's surface: earthquakes
4. Changes to Earth's surface: volcanic eruptions
5. Changes to Earth's surface: erosion

Q. Units and measurement

1. Choose units of time
2. Choose customary units of distance
3. Choose metric units of distance
4. Abbreviate time and length units
5. Abbreviate mass and volume units