



Nancy Larson® Science 2 Table of Contents

A: Investigating the Physical Properties of Matter

- | | |
|---|---|
| 1 Describing what scientists do | 11 Identifying and describing the properties of liquids |
| 2 Classifying matter as living or non-living | 12 Identifying and describing the properties of gases |
| 3 Identifying human-made and natural matter | 13 Observing how matter changes state |
| 4 Sorting objects by the material from which they are made | 14 Identifying and describing transparent, translucent, and opaque matter |
| 5 Observing and naming solids, liquids, and gases
Describing characteristics of solids | 15 Identifying matter attracted to magnets |
| 6 Describing the color, luster, and texture of solids | 16 Exploring magnetic attraction
Identifying different types of magnets |
| 7 Describing the hardness, flexibility, and buoyancy of solids | 17 Identifying and naming the magnetic poles of magnets
Demonstrating that like poles repel and unlike poles attract |
| 8 Measuring the mass of a solid | 18 Review 2: Physics—States of Matter and Magnets |
| 9 Review 1: Physics—Physical Properties of Matter | 19 Assessment 2: Physics—States of Matter and Magnets |
| 10 Assessment 1: Physics—Physical Properties of Matter | |

B: Observing Rocks and Minerals

- | | |
|---|--|
| 20 Classifying rocks by size | 24 Observing the crystal structure of the mineral halite |
| 21 Describing minerals | 25 Identifying the minerals in granite |
| 22 Observing and describing physical properties of minerals | 26 Review 3: Geology—Rocks and Minerals |
| 23 Comparing the hardness of minerals | 27 Assessment 3: Geology—Rocks and Minerals |

C: Investigating Forces and Work

- | | |
|--|---|
| 28 Observing and describing the effect of force on the movement of objects | 34 Assessment 4: Physics—Force, Gravity, Friction, Work |
| 29 Identifying gravity as a force
Observing and describing the effect of gravity on the movement of objects | 35 Observing how rollers reduce the amount of force needed to do work |
| 30 Identifying friction as a force
Observing and describing the effect of friction on the movement of objects | 36 Observing how wheels make it easier to move an object |
| 31 Describing and demonstrating how a lubricant affects friction between two objects | 37 Conducting an experiment to determine how the steepness of a ramp affects the distance a toy car travels |
| 32 Describing and demonstrating work | 38 Investigating what happens when objects of different masses travel down a ramp |
| 33 Review 4: Physics—Force, Gravity, Friction, Work | 39 Engineering: Building a car with wheels |
| | 40 Review 5: Physics—Forces and Wheels |
| | 41 Assessment 5: Physics—Forces and Wheels |

D: Examining Simple Machines

- | | |
|--|--|
| 42 Identifying the six simple machines
Identifying and describing inclined planes
Demonstrating how inclined planes function | 47 Identifying and describing second- and third-class levers
Identifying the fulcrum, load, and effort
Demonstrating how a third-class lever functions |
| 43 Identifying and describing wedges
Demonstrating how wedges function | 48 Identifying and describing wheels and axles
Demonstrating how wheels and axles function |
| 44 Identifying and describing screws
Demonstrating how screws function | 49 Identifying and describing fixed and movable pulleys
Demonstrating how pulleys function |
| 45 Engineering: Comparing nails and screws | 50 Identifying and describing machines people use |
| 46 Identifying and describing levers
Identifying the fulcrum, load, and effort
Demonstrating how a first-class lever functions | 51 Review 6: Physics—Simple Machines |
| | 52 Assessment 6: Physics—Simple Machines |
| | 53 Identifying ways to conserve paper and plastic by reducing, reusing, and recycling |

Nancy Larson[®] Science 2 Table of Contents

E: Exploring Sound and Light

- 54 Identifying what causes sound
- 55 Identifying what causes loud and soft sounds
- 56 Describing the loudness of sounds
- 57 Identifying how the environment affects the sounds we hear
- 58 Describing how human beings hear sounds
- 59 Describing the pitch of sound
- 60 Making an instrument that produces various pitches
- 61 Identifying sources of light
 - Identifying how light travels
- 62 Identifying the colors in the light spectrum
- 63 Identifying what determines the colors of objects
- 64 Review 7: Physics—Sound and Light
- 65 Assessment 7: Physics—Sound and Light

F: Investigating Birds

- 66 Observing birds in their habitat
- 67 Identifying characteristics of birds
- 68 Identifying how birds move
- 69 Identifying characteristics of birds' bodies
- 70 Identifying characteristics of birds' legs and feet
- 71 Identifying sounds birds make
- 72 Identifying what birds eat by the shape of their bills
- 73 Observing birds
 - Using a bird identification guide to identify birds
- 74 Describing the function and design of birds' nests
 - Describing characteristics of birds' eggs
- 75 Describing how birds care for their chicks
 - Describing characteristics of chicks
- 76 Describing characteristics of owls
- 77 Observing what an owl eats by examining an owl pellet
- 78 Using reference tools and resources to locate and report information about a bird
- 79 Review 8: Ornithology—Birds
- 80 Assessment 8: Ornithology—Birds