

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 objects | 13 Observing how matter changes state |
| 4 Sorting objects by the material from which they are made | 14 Describing the transparency of matter |
| 5 Observing and naming solids, liquids, and gases
Describing the 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 Observing and describing the physical properties of a rock | 25 Identifying the minerals in granite |
| 22 Describing the 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 Demonstrating how the mass of an object affects the amount
of force needed to move the object
Demonstrating how the strength and the direction of a force
affects the movement of the object | 35 Observing how rollers and wheels make work easier |
| 29 Identifying gravity as a force | 36 Observing the function of wheels and axles |
| 30 Observing and describing the effect of friction on the
movement of objects | 37 Observing how large wheels make it easier to move over an
obstacle
Investigating the effects of friction on movement down an
inclined plane |
| 31 Describing and demonstrating how a lubricant affects friction
between two objects | 38 Investigating how the steepness of an inclined plane affects
the distance a toy car travels |
| 32 Describing and demonstrating work | 39 Investigating what happens when objects of different masses
travel down an inclined plane |
| 33 Review 4: Physics—Force, Gravity, Friction, Work | 40 Review 5: Physics—Forces and Wheels |
| 34 Assessment 4: Physics—Force, Gravity, Friction, Work | 41 Assessment 5: Physics—Forces and Wheels |

D: Examining Simple Machines

- | | |
|---|---|
| 42 Identifying how inclined planes make work easier | 48 Describing the characteristics of wheels and axles |
| 43 Describing the characteristics of wedges | 49 Demonstrating how pulleys function |
| 44 Describing the characteristics of screws
Comparing nails and screws | 50 Identifying and describing machines people use |
| 45 Identifying the function of screws | 51 Review 6: Physics— Simple Machines |
| 46 Demonstrating how first-class levers function
Identifying the parts of levers | 52 Assessment 6: Physics— Simple Machines |
| 47 Identifying the fulcrum, load, and effort of levers
Identifying how second- and third-class levers function | 53 Identifying ways to conserve paper and plastic |

Nancy Larson® *Science 2* Table of Contents

E: Exploring Sound and Light

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

F: Investigating Birds

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