PHYSICS

| Atomic structure and electricity | Chapter 30: Lightning and Electricity |
|---|---------------------------------------|
| Electromagnetic spectrum and black body radiation | Chapter 26: The Color of Fire |
| Infrared | Chapter 10: Snakes |
| Light scattering | Chapter 1: Twilight |
| Light absorption, reflection, and color | Chapter 3: Color Vision |
| Convex reflection | Chapter 8: Convex Reflection |
| Sound waves, amplitude, frequency, and the speed of sound | Chapter 31: Thunder and Sound |
| Sound and vibration | Chapter 4: Whispering |
| Air pressure | Chapter 11: Wind and Air Pressure |

CHEMISTRY

| Atoms, molecules, and combustion | Chapter 24: Hydration and Cellular Respiration |
|---|--|
| Oxidation and chemical bonds | Chapter 25: Sparks and Making Fire |
| Covalent bonding, ions, and acids | Chapter 17: Vinegar and Acids |
| Organic molecules and macro-molecules | Chapter 15: Bread and Nutrition |
| Solubility, ionic bonding, osmosis, and crystal structure | Chapter 22: Salt, Food Preservation, and Crystals |
| Water phase changes | Chapter 12: Rain, Precipitation, and the Water Cycle |
| Fermentation | Chapter 14: Wine and Fermentation |
| Milk | Chapter 19: Milk |
| Cheese | Chapter 20: Cheese |

GENERAL BIOLOGY

| Bacteria, cells, and membranes | Chapter 22: Salt, Food Preservation, and Crystals |
|--|---|
| Hydration, cells, and cellular respiration | Chapter 24: Hydration and Cellular Respiration |
| Fungi | Chapter 16: Mushrooms and Truffles |
| Plants | Chapter 5: Flax |
| Trees, vegetables, and fruits | Chapter 13: Fruits and Vegetables |
| Insects | Chapter 18: Grasshoppers and Locusts |
| Snakes | Chapter 10: Snakes |
| Mammals and milk | Chapter 19: Milk |
| Fat and energy storage | Chapter 2: Fats |

HUMAN BIOLOGY

| Digestion and the gastrointestinal tract | Chapter 27: Digestion |
|--|---|
| Nutrition | Chapter 15: Bread and Nutrition |
| Fat | Chapter 2: Fats |
| Hydration, cells, and cellular respiration | Chapter 24: Hydration and Cellular Respiration |
| Bacteria, cells, and membranes | Chapter 22: Salt, Food Preservation, and Crystals |
| Speech and the vocal apparatus | Chapter 4: Whispering |
| Sense of sight and the eyes | Chapter 3: Color Vision |
| Sense of smell and the nose | Chapter 21: Incense and Our Sense of Smell |
| Sense of taste and the tongue | Chapter 23: Water and Our Sense of Taste |
| Sense of hearing and the ear | Chapter 31: Thunder and Sound |

EARTH SCIENCES

| Introduction to astronomy | Chapter 28: Meteors and Comets |
|--|--|
| The Earth's rotation | Chapter 6: Sun Movement |
| Seasons | Chapter 7: Halachic Hours |
| Plate tectonics | Chapter 29: Earthquakes and Plate Tectonics |
| Forces of erosion and activity on the surface of the Earth | Chapter 32: Mountains, Hills, Seas, and Rivers |
| The Atmosphere and wind | Chapter 11: Wind and Air Pressure |
| Precipitation and the water cycle | Chapter 12: Rain, Precipitation, and the Water Cycle |
| Atmospheric effects on light | Chapter 1: Twilight |
| Lightning | Chapter 30: Lightning and Electricity |
| Thunder | Chapter 31: Thunder and Sound |