PHYSICAL SCIENCE
35-WEEK SCHEDULE

WEEK 1
INTRODUCTION

Class 1: Physical Science: Introduction, Part 1

Class 2: Physical Science: Introduction, Part 2

Class 3: Physical Science: Introduction, Part 3

Activity: Data Collection

WEEK 2
CHEMISTRY

Class 4: Introduction

Class 5: Matter and How It's Made, Introduction

Class 6: Matter and How It's Made, Molecules

Activity: Making a Ball-and-Stick Diagram

WEEK 3
CHEMISTRY

Class 7: Matter and How It's Made, Introduction to Atoms

Class 8: Matter and How It's Made, Atoms

Class 9: Matter and How It's Made, Atoms and Charge

WEEK 4
CHEMISTRY

Class 10: Matter and How It's Made, Atoms and Why They Don't Fly Apart

Class 11: Matter and How It's Made, Building Matter From the Ground Up

Class 12: Matter and How It's Made, Elemental and Compound Matter

WEEK 5
CHEMISTRY

Class 13: Matter and How It's Made, The Periodic Table of Elements, Part 1

Activity: Periodic Table of Elements, Build a Box

Class 14: Matter and How It's Made, The Periodic Table of Elements, Part 2

Activity: Periodic Table of Elements, Build a Box, Part 2

Class 15: Matter and How It's Made, The Periodic Table of Elements, Part 3

WEEK 6
CHEMISTRY

Class 16: Matter and How It's Made, The Periodic Table of Elements, Part 4

Activity: Periodic Table of Elements, Build a Box, Part 3

Class 17: Matter and How It's Made, The Periodic Table of Elements, Part 5

Class 18: Matter and How It's Made, The Periodic Table of Elements, Part 6

Activity: Periodic Table of Elements, Build a Box, Part 4

WEEK 7
CHEMISTRY

Class 19: Matter and How It's Made, The Periodic Table of Elements, Part 7

Activity: Periodic Table of Elements, Build a Box, Part 5

Class 20: Matter and How It's Made, The Periodic Table of Elements, Part 8

Activity: Periodic Table of Elements, Build a Box, Part 6

Class 21: Matter and How It's Made, Review

WEEK 8
CHEMISTRY

Class 22: Matter and How It's Made, Bonds, Part 1

Class 23: Matter and How It's Made, Bonds, Part 2

Class 24: Matter and How It's Made, Bonds, Part 3

WEEK 9
CHEMISTRY

Class 25: Matter and How It's Made, The Chemical Formula

Class 26: States of Matter

Activity: Oobleck

Class 27: Physical Changes to Matter, Part 1

WEEK 10
CHEMISTRY

Class 28: Physical Changes to Matter, Part 2

Class 29: Physical Changes to Matter, Part 3

Class 30: Physical Changes to Matter, Part 4

WEEK 11
CHEMISTRY

Class 31: Chemical Changes in Matter, Part 1

Class 32: Chemical Changes in Matter, Part 2

Class 33: Chemical Changes in Matter, Part 3

WEEK 12
CHEMISTRY

Class 34: Chemical Changes in Matter, Signs of a Chemical Reaction

Activity: Elephant Toothpaste

Class 35: Review, Part 1

Class 36: Review, Part 2

WEEK 13
PHYSICS

Class 37: Introduction

Class 38: History, Part 1

Class 39: History, Part 2

WEEK 14
PHYSICS

Class 40: Introduction to Forces, Part 1

Class 41: Introduction to Forces, Part 2

Activity: Push, Pull, Gravity

Class 42: Gravity, Part 1

WEEK 15
PHYSICS

Class 43: Gravity, Part 2

Class 44: Gravity, Part 3

Class 45: Gravity, Part 4

WEEK 16
PHYSICS

Class 46: Vectors, Part 1

Class 47: Vectors, Part 2

Activity: Vectors in Sports

Class 48: Vectors, Part 3

WEEK 17
PHYSICS

Class 49: Forces

Class 50: Newton's 3rd Law of Motion, Part 1

Class 51: Newton's 3rd Law of Motion, Part 2

WEEK 18
PHYSICS

Class 52: The Normal Force, Part 1

Class 53: The Normal Force, Part 2

Class 54: Tension Force, Part 1

WEEK 19
PHYSICS

Class 55: Tension Force, Part 2

Class 56: Friction Force, Part 1

Class 57: Friction Force, Part 2

WEEK 20
PHYSICS

Class 58: Friction Force, Part 3

Class 59: Friction Force, Part 4

Class 60: Friction Force, Part 5

Activity: Friction and Ice

WEEK 21
PHYSICS

Class 61: Buoyancy Force, Part 1

Class 62: Buoyancy Force, Part 2

Class 63: Buoyancy Force, Part 3

Activity: Buoyancy

WEEK 22
PHYSICS

Class 64: Lift Force, Part 1

Class 65: Lift Force, Part 2

Activity: Paper Airplanes

Class 66: Drag and Thrust Forces

WEEK 23
PHYSICS

Class 67: Electrostatic Force, Part 1

Class 68: Electrostatic Force, Part 2

Class 69: Charge and Charge Transfer, Part 1

WEEK 24
PHYSICS

Class 70: Charge and Charge Transfer, Part 2

Class 71: Charge and Charge Transfer, Part 3

Class 72: The Flow of Electrons and Electricity

Activity: Light Bulb

WEEK 25
PHYSICS

Class 73: Magnetism, Part 1

Class 74: Magnetism, Part 2

Class 75: Magnetism at the Atomic Level

Activity: Magnets

WEEK 26
PHYSICS

Class 76: Energy, Introduction

Class 77: Kinetic and Potential Energy, Part 1

Class 78: Kinetic and Potential Energy, Part 2

Activity: Identifying Energy

WEEK 27
PHYSICS AND ASTRONOMY

Class 79: Review, Part 1

Class 80: Review, Part 2

Class 81: Astronomy: Introduction

WEEK 28
ASTRONOMY

Class 82: History

Class 83: God's Creation

Class 84: Solar System, Introduction

WEEK 29
ASTRONOMY

Class 85: Introduction, Telescopes, Part 1

Class 86: Introduction, Telescopes, Part 2

Activity: Telescope Practicum

Class 87: The Solar System, Overview

WEEK 30
ASTRONOMY

Class 88: The Solar System, Scale and Distances, Part 1

Class 89: The Solar System, Scale and Distances, Part 2

Class 90: The Solar System, The Sun, Part 1

Activity: Periodic Table of the Solar System, Part 1

WEEK 31
ASTRONOMY

Class 91: The Solar System, The Sun, Part 2

Class 92: The Solar System, Planets, Part 1

Activity: Periodic Table of the Solar System, Part 2

Class 93: The Solar System, Planets, Part 2

Activity: Periodic Table of the Solar System, Part 3

WEEK 32
ASTRONOMY

Class 94: The Solar System, Dwarf Planets, Comets and Asteroids

Activity: Periodic Table of the Solar System, Part 4

Class 95: Stars, Part 1

Class 96: Stars, Part 2

WEEK 33
ASTRONOMY

Class 97: Stars, Part 3

Class 98: Stars, Part 4

Activity: Star Projector

Class 99: Exoplanets, Binary Stars, Star Clusters, Brown Dwarfs

WEEK 34
ASTRONOMY

Class 100: Supernovas, Nebulas, Neutron Stars and Black Holes

Class 101: Galaxies and Nebulas

Activity: Galaxy Shapes

Class 102: Constellations

Activity: Constellation Connect the Dots

WEEK 35
ASTRONOMY

Class 103: Science and Origins, Part 1

Class 104: Science and Origins, Part 2

Class 105: Science and Origins, Part 3