

2015 Science Supply List

General Science II

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UNIT 1: SCIENCE AND SOCIETY

Assignment Title	Project Summary	Video Demo		Materials Needed
Essay: Gregor Mendel	In this essay, you will write an essay about Gregor Mendel.	No	•	research resources
*Essay: Leonardo Da Vinci	In this essay, you will Write an essay about Leonardo daVinci's inventions.	No	•	research resources
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No		N/A

^{*}indicates alternate project/experiments

UNIT 2: STRUCTURE OF MATTER (PART 1)

Assignment Title	Project Summary	Video Demo	Mate Nee	
Experiment: Determining Volume	In this experiment, you will attempt to determine the volume of two objects, using two different methods.	No	 a metric ruler an object with linear sides or a common geometric shape 	stringwatersmall rockgraduated cylinder
*Experiment: Metric Measurement	In this experiment, you will utilize a balance to find mass, calculate volume from measurements, calculate density from data on mass and volume, and read a Celsius thermometer.	Yes	a balancea metric ruler	a small, rectangular wooden block
Experiment: Separating A Mixture	In this experiment, you will utilize a filter to separate a mixture of sand and water and summarize your findings.	Yes	saltwatersand	a measuring cupa balancefilter paper
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A	

^{*}indicates alternate project/experiments

UNIT 3: STRUCTURE OF MATTER (PART 2)

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Phase Changes	In this experiment you will observe phase changes in water.	No	 crushed ice string burner or alcohol lamp beaker ceramic pad thermometer ring stand or alcohol stand ethyl alcohol for us with alcohol lamp time piece with a second hand
Experiment: Forms Of Change	In this investigation, you will be conducting a simple experiment. You will classify the result as a physical or chemical change.	No	 sugar beaker stirring rod or teaspoon
Experiment: The Cabbage Indicator	In this experiment, you will use indicator for each substance to determine if substance is an acid or a base and summarize results and the experimental method	Yes	 red cabbage 6 small test tubes knife crayons a pot a stove or other heat source a small jar a spoon baking soda in wate lemon juice vinegar water ammonia milk
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A

^{*}indicates alternate project/experiments

UNIT 4: HEALTH AND NUTRITION

Assignment Title	Project Summary	Video Demo		Materials Needed
Experiment: Weekly Food Record	In this experiment, you will record your diet for a week utilizing the chart and write a description of the foods eaten in each category	No	•	access to a printer
Essay: Nutrition	In this essay, you will write about nutrition.	No	•	research resources
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No		N/A

^{*}indicates alternate project/experiments

UNIT 5: ENERGY (PART 1)

Assignment Title	Project Summary	Video Demo	Materials Needed
*Essay: Entropy And God's Plan	In this essay, you will write a report on the implications of entropy to a Christian	No	a Christian friend
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A

^{*}indicates alternate project/experiments

UNIT 6: ENERGY (PART 2)

Assignment Title	Project Summary	Video Demo			erials eded	
Experiment: Magnetism	In this experiment, you will diagram the magnetic fields around the magnets.	Yes	•	two bar magnets one horseshoe magnet iron filings	•	sheet of glass or plastic several sheets of paper
*Experiment: Hot Dog Cooker	In this investigation you will harness the sun's power to make your lunch!	No	•	hot dog long segment of metal coat hanger aluminum foil	•	scissors cardboard glue
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No		N/A		

^{*}indicates alternate project/experiments

UNIT 7: MACHINES (PART 1)

Assignment Title	Project Summary	Video Demo	Materials Needed
Essay: Scientists	In this essay, you will write a report on one of the Christian scientists listed in the lesson.	No	research resources
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A

^{*}indicates alternate project/experiments

UNIT 8: MACHINES (PART 2)

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Friction Investigation	In this investigation, you will determine the coefficient of friction for the same mass under two different conditions.	No	 small match box pebbles coins (pennies are best) string (about 24 inches long) small plastic bag 8 or 10 round sticks (pencils, Tinker Toys, dowels) small scale or balance
*Experiment: Pencil Sharpener	In this investigation you will use a wall-mounted pencil sharpener as a wheel, axle, and lever, observing how it decreases the effort force.	No	 wall mounted pencil sharpener book 2 meters of string metric ruler electronic balance or bathroom scale.
*Special Project	Special Project assignments are used by teachers to create their own projects if needed	No	N/A

^{*}indicates alternate project/experiments

UNIT 9: BALANCE IN NATURE

Assignment Title	Project Summary	Video Demo		Materials Needed	
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A		

^{*}indicates alternate project/experiments

UNIT 10: SCIENCE AND TECHNOLOGY

Assignment Title	Project Summary	Video Demo		Materials Needed	
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A		

^{*}indicates alternate project/experiments