



2017-2018 General Science II

General Science II

Table of Contents

UNIT 1: SCIENCE AND SOCIETY.....	1
UNIT 2: STRUCTURE OF MATTER (PART 1).....	1
UNIT 3: STRUCTURE OF MATTER (PART 2).....	2
UNIT 4: HEALTH AND NUTRITION	3
UNIT 5: ENERGY (PART 1)	3
UNIT 6: ENERGY (PART 2)	3
UNIT 7: MACHINES (PART 1)	4
UNIT 8: MACHINES (PART 2)	4
UNIT 9: BALANCE IN NATURE.....	5
UNIT 10: SCIENCE AND TECHNOLOGY	5

UNIT 1: SCIENCE AND SOCIETY

Assignment	Summary	Video Demo	Supplies
Essay: Mendel	In this essay, you will write an essay about Gregor Mendel	No	<ul style="list-style-type: none"> research resources
*Essay: Leonardo Da Vinci	In this essay, you will write an essay about Leonardo daVinci's inventions.	No	<ul style="list-style-type: none"> research resources
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 2: STRUCTURE OF MATTER (PART 1)

Assignment	Summary	Video Demo	Supplies
Experiment: Determining Volume	In this experiment, you will attempt to determine the volume of two objects, using two different methods.	No	<ul style="list-style-type: none"> a metric ruler an object with linear sides or a common geometric shape string water small rock graduated 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	<ul style="list-style-type: none"> a balance a metric ruler a small, rectangular wooden block a Celsius (centigrade) thermometer ice cubes water three beakers labels a heating source
Experiment: Mixtures	In this investigation we will attempt to separate sand from salt water, and salt from water.	Yes	<ul style="list-style-type: none"> salt water sand a measuring cup a balance filter paper

*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A
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UNIT 3: STRUCTURE OF MATTER (PART 2)

Assignment	Summary	Video Demo	Supplies
Experiment: Phase Changes	In this experiment you will observe phase changes in water.	No	<ul style="list-style-type: none"> • crushed ice • string • burner or alcohol lamp • beaker • ceramic pad • thermometer • ring stand or alcohol stand • ethyl alcohol for use 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	<ul style="list-style-type: none"> • sugar • beaker or dish • water • stirring rod or teaspoon
Experiment: Cabbage	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	<ul style="list-style-type: none"> • red cabbage • 6 small test tubes • knife • crayons • a pot • a stove or other heat source • a small jar • a spoon • baking soda in water • lemon juice • vinegar • water • ammonia • milk
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 4: HEALTH AND NUTRITION

Assignment	Summary	Video Demo	Supplies
Experiment: 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	<ul style="list-style-type: none"> access to a printer pencil
Essay: Nutrition	In this essay, you will write about nutrition.	No	<ul style="list-style-type: none"> research resources
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 5: ENERGY (PART 1)

Assignment	Summary	Video Demo	Supplies
*Essay: Entropy And God's Plan	In this essay, you will write a report on the implications of entropy to a Christian	No	<ul style="list-style-type: none"> a Christian friend to discuss the implications of entropy
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 6: ENERGY (PART 2)

Assignment	Summary	Video Demo	Supplies
Experiment: Magnetism	In this experiment, you will diagram the magnetic fields around the magnets.	Yes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> hot dog long segment of metal coat hanger aluminum foil scissors cardboard glue

*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A
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UNIT 7: MACHINES (PART 1)

Assignment	Summary	Video Demo	Supplies
Essay: Scientists	In this essay, you will write a report on one of the Christian scientists listed in the lesson.	No	<ul style="list-style-type: none"> research resources
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 8: MACHINES (PART 2)

Assignment	Summary	Video Demo	Supplies
Experiment: Friction Investigation	In this investigation, you will determine the coefficient of friction for the same mass under two different conditions.	No	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> wall mounted pencil sharpener book 2 meters of string metric ruler electronic balance or bathroom scale
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 9: BALANCE IN NATURE

Assignment	Summary	Video Demo	Supplies
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 10: SCIENCE AND TECHNOLOGY

Assignment	Summary	Video Demo	Supplies
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

* indicates an alternative assignment