



Switched-On

SCHOOLHOUSE® 2012 EDITION

Supply List

General Science II

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Please have a pencil, paper and access to a printer available for all projects by default.

UNIT 1: SCIENCE AND SOCIETY

Assignment # and Title	Project Summary	Video Demo	Materials Needed
4. Essay: Mendel	In this essay you will describe Gregor Mendel, his discoveries, and the impact of those discoveries.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> reference material
9. Essay: Da Vinci	In this essay you will write about the inventions of Leonardo Da Vinci.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> reference material
12. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 2: STRUCTURE OF MATTER (PART 1)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
2. Experiment: Determining Volume	In this experiment, you will attempt to determine the volume of two objects, using two different methods.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> an object with linear sides or a common geometric shape metric ruler string water small rock graduated cylinder
3. Experiment: Metric Measures	In this experiment you will utilize a balance, calculate volume, calculate density, and read a Celsius thermometer.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> balance metric ruler small rectangular wooden block
12. Experiment: Mixtures	In this experiment you will utilize a filter to separate a mixture of sand and water.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> salt water sand measuring cup balance filter paper
14. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 3: STRUCTURE OF MATTER (PART 2)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
2. Experiment: Phase Changes	In this experiment you will be recording data, and summarizing your findings regarding phase changes.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • crushed ice • string • burner or alcohol lamp • beaker • ceramic pad <ul style="list-style-type: none"> • thermometer • ring stand or alcohol stand • ethyl alcohol for use with alcohol lamp • time piece with a second hand
5. Experiment: Forms of Change	In this experiment you will use the scientific method to classify your results as a physical or chemical change.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • sugar • beaker or dish <ul style="list-style-type: none"> • water • stirring rod or teaspoon
11. Experiment: Cabbage	In this experiment you will use an indicator for each substance to determine if the substance is an acid or a base	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • red cabbage • 6 small test tubes • knife • crayons • a pot • a stove • ammonia • milk <ul style="list-style-type: none"> • small jar • spoon • baking soda in water • lemon juice • vinegar • water
15. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 4: HEALTH AND NUTRITION

Assignment # and Title	Project Summary	Video Demo	Materials Needed
4. Experiment Food Record	In this experiment you will record your diet for a week, and write a description of the foods eaten in each category.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • reference material
7. Essay: Nutrition	In this essay you will write about nutrition.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • reference material
11. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 5: ENERGY (PART 1)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
9. Essay: Entropy	In this essay you will write about the implications of entropy to a Christian.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • reference material
11. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 6: ENERGY (PART 2)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
2. Experiment: Magnetism	In this experiment you will draw the magnetic fields around magnets.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • two bar magnets • one horseshoe magnet • iron fillings • sheet of glass • plastic or paper • paper clips <ul style="list-style-type: none"> • several different small metal objects • thumbtack • compass • several sheets of paper • string
9. Experiment: Hot Dog Cooker	In this experiment you will harness the sun's power to make your lunch, and then write a report on solar energy.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> • hot dog • long segment of metal coat hanger • aluminum foil <ul style="list-style-type: none"> • scissors • cardboard • glue
11. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 7: MACHINES (PART 1)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
2. Essay: Scientists	In this essay you will be writing a report on a Christian scientist.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • reference material
11. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 8: MACHINES (PART 2)

Assignment # and Title	Project Summary	Video Demo	Materials Needed
3. Experiment: Friction Investigation	In this experiment you will calculate the coefficient of friction for a matchbox, and summarize your results.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • small match box • pebbles • coins (pennies) • string (about 24 inches long) • small scale or balance <ul style="list-style-type: none"> • plastic bag • 8 or 10 round sticks (pencils, tinker toys, dowels)
8. Experiment: Pencil Sharpener	In this experiment you will use a wall-mounted pencil sharpener as a wheel, axle, and lever, observing how it decreases the effort force.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<ul style="list-style-type: none"> • wall mounted pencil sharpener • book <ul style="list-style-type: none"> • 2 meters of string • metric ruler
12. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 9: BALANCE IN NATURE

Assignment # and Title	Project Summary	Video Demo	Materials Needed
10. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A

UNIT 10: SCIENCE AND TECHNOLOGY

Assignment # and Title	Project Summary	Video Demo	Materials Needed
14. Special Project	Special Project assignments are used by teachers to create their own projects if needed.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A