



Switched-On
SCHOOLHOUSE

2015 Science Supply List

General Science I

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UNIT 1: WHAT IS SCIENCE?

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 2: PERCEIVING THINGS

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Making Graphs	In this project, you will be designing three graphs based on information given to you in tables.	No	<ul style="list-style-type: none"> • access to a printer • Microsoft® Excel®
*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: EARTH IN SPACE (PART 1)

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Constellations	In this experiment, you will study and emphasize the astronomical value and history of the Zodiac.	No	<ul style="list-style-type: none"> • 2 pieces of thin cardboard • paper fastener • pens and markers
*Experiment: Astrolabe	In this investigation, you will build your own astrolabe like early astronomers did.	No	<ul style="list-style-type: none"> • 13 cm by 8 cm by 1½ cm block of wood • 20 cm by 20 cm by 3 cm block of wood • 20 cm by 3 cm by 3 cm block of wood • drinking straw • 15 cm piece of thread • small metal washer • 1½ by 8 cm piece of tin (cut from tin can and tapered to sharp point at end) • half-circle protractor • full-circle protractor • 5 cm nail • 4 cm nail • glue
*Essay: Galileo	In this essay, you will use reference books to research the imprisonment of Galileo for his beliefs and write an 800 word report.	No	<ul style="list-style-type: none"> • 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 4: EARTH IN SPACE (PART 2)

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 5: THE ATMOSPHERE

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: The Greenhouse	In this investigation, you will create your own "greenhouse" to demonstrate the greenhouse effect. Then you will summarize the data you collect in a report.	Yes	<ul style="list-style-type: none"> • two shoe boxes • sheet of clear plastic or pane of glass • two thermometers • watch or stop watch
*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: WEATHER

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Dew Point	In this investigation, you will attempt to determine the dew point of the surrounding air.	Yes	<ul style="list-style-type: none"> • shiny metal can • ice cubes • water • thermometer • stir rod or spoon
*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: CLIMATE

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 8: THE HUMAN ANATOMY (PART 1)

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Cheek Cells	This activity allows you to take a look at a few of your own cells.	Yes	<ul style="list-style-type: none"> wooden splint iodine solution slide and cover slip microscope water tweezers eye dropper
*Project: Human Brain	In this project, research some interesting aspect of the function of the brain and write a 500-word report on that feature.	No	<ul style="list-style-type: none"> 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 9: THE HUMAN ANATOMY (PART 2)

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Heart Rate	In this experiment, you will take your own pulse using both methods and determine how accurate each method is.	No	<ul style="list-style-type: none"> watch with a second hand
*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: WORKING IN SCIENCE

Assignment Title	Project Summary	Video Demo	Materials Needed
Experiment: Red Celery	In this experiment, you will investigate to see if plants have a special pipeline that carries water from the roots to every cell in the plant.	No	<ul style="list-style-type: none"> stalk of celery red food coloring teaspoon half a glass of water sharp knife
*Special Project	Special Project assignments are used by teachers to create their own projects if needed.	No	N/A

*indicates alternate project/experiments