

Odysseyware®

SUPPLY LIST

Science 300



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UNIT 1: YOU GROW AND CHANGE

Assignment	Summary	Video Demo	Supplies
Experiment: Breathing Patterns	In this experiment, you will watch your breathing patterns before and after exercise.	No	<ul style="list-style-type: none"> a clock with a second hand
*Experiment: Your Lungs	In this experiment, you will see how your lungs are like a sponge.	No	<ul style="list-style-type: none"> a sponge
Experiment: Taste Test	Try this experiment and answer the questions.	No	<ul style="list-style-type: none"> four small glass jars water vinegar hard candies stopwatch or clock
Experiment: Taking Your Pulse	Find out how fast your heart is beating every minute.	No	<ul style="list-style-type: none"> a clock with a second hand
*Project: Bone Numbers	You have learned about bones and muscles. Your body is made of 206 bones. How many of these bones do you think are in your hand? Your foot?	No	N/A
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 2: PLANTS

Assignment	Summary	Video Demo	Supplies
Project: Root Hairs	In this experiment, you will look at the root hairs on a plant.	No	<ul style="list-style-type: none"> a small plant a magnifying glass
*Experiment: Study a Stem	In this experiment, you will see how stems carry water and nutrients to the rest of the plant.	No	<ul style="list-style-type: none"> a small jar with water food coloring magnifying glass celery stalk
Experiment: Grow Some Plants	In this experiment, you will see how important sunlight is to a plant.	No	<ul style="list-style-type: none"> two small potted plants or bean seedlings a box big enough to cover one plant a sunny window
Experiment: Watch the Seeds Grow	In this experiment, you will watch a plant grow from a seed.	No	<ul style="list-style-type: none"> a jar with water fifteen lima beans five paper cups potting soil wet paper towel

*Experiment: Plant a Piece of Potato	In this experiment, you will watch a potato grow.	No	<ul style="list-style-type: none"> a white potato (one with "eyes" on it) 	<ul style="list-style-type: none"> a pot of soil a knife water
* Experiment: Bean Plant	In this experiment, you will watch a bean plant grow.	No	<ul style="list-style-type: none"> a glass jar felt marker three lima beans 	<ul style="list-style-type: none"> centimeter ruler wet paper towel
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A		N/A

UNIT 3: ANIMALS

Assignment	Summary	Video Demo	Supplies
Project: Metamorphosis	Pick an insect from the list in the assignment. Draw and label each stage of the insect's metamorphosis.	No	<ul style="list-style-type: none"> research resources
Project: Aquarium	Pick a fish from the list in the assignment. Research the fish that you chose and write a short paragraph about what you learn.	No	<ul style="list-style-type: none"> research resources
Project: Vertebrates	Complete a chart with the information you have learned.	No	<ul style="list-style-type: none"> research resources
Project: Marsupials	Pick a marsupial from the list in the assignment. Research your animal. Write a two-paragraph report about what you learn.	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 4: BODY HEALTH

Assignment	Summary	Video Demo	Supplies
Project: Breakfast Chart	<p>What did you have for breakfast today?</p> <p>Follow these three steps to complete the breakfast chart. You will complete the chart by recording your information in the ESSAY box at the bottom of the page.</p>	No	<ul style="list-style-type: none"> internet access
* Project: Lunch Chart	<p>What did you have for lunch today?</p> <p>Follow these three steps to complete the lunch chart. You will complete the chart by recording your information in the ESSAY box at the bottom of the page</p>	No	<ul style="list-style-type: none"> internet access
* Project: Dinner Chart	<p>What did you have for dinner today?</p> <p>Follow these three steps to complete the dinner chart. You will complete the chart by recording your information in the ESSAY box at the bottom of the page.</p>	No	<ul style="list-style-type: none"> internet access
* Project: Chart Totals	<p>Write the names of the foods you ate for the three meals you have listed in your breakfast, lunch and dinner charts.</p>	No	<ul style="list-style-type: none"> internet access
*Special Project	<p>Use this Special Project template to create your own assignment for this unit.</p>	N/A	N/A

UNIT 5: PROPERTIES OF MATTER

Assignment	Summary	Video Demo	Supplies
Experiment: Be a Chemist	<p>In this experiment you will study matter.</p>	No	<ul style="list-style-type: none"> a pan of water a cup of sand a stick
Experiment: Volume	<p>Multiply the length, width, and height of an object. The answer is the volume of the object.</p>	No	<ul style="list-style-type: none"> two different sizes of books metric ruler (with millimeter markings) calculator pencil and paper
* Experiment: Is Air Matter?	<p>In this experiment you will find out if air is matter.</p>	No	<ul style="list-style-type: none"> two balloons door wire coat hanger
* Project: Matter	<p>Make a list of fifteen different kinds of matter today after school.</p>	No	N/A

* Experiment: Is Water Matter?	In this experiment you will find out if water is matter.	No	<ul style="list-style-type: none"> • small diet scale • cup 	<ul style="list-style-type: none"> • water
Experiment: Mass	In this experiment, you will measure the mass of different forms of matter.	No	<ul style="list-style-type: none"> • equal arm balance • cup 	<ul style="list-style-type: none"> • ice cubes
* Experiment: Melting Ice Cubes	In this experiment you will see how temperature can change the state of matter.	No	<ul style="list-style-type: none"> • 5 paper cups • 5 ice cubes • refrigerator 	<ul style="list-style-type: none"> • cool water • hot water • watch or clock
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A		N/A

UNIT 6: SOUND

Assignment	Summary	Video Demo	Supplies	
Experiment: Vibrations	In this experiment, you will study sound.	No	<ul style="list-style-type: none"> • cardboard tube, such as paper towel center • wax paper 	<ul style="list-style-type: none"> • rubber bands • scissors
Experiment: Sound Patterns	In this experiment, you will see how sound travels through water.	No	<ul style="list-style-type: none"> • 6 tall glasses • Measuring cups • water 	<ul style="list-style-type: none"> • food coloring • a mixing spoon
Report: Sound	Find a book about sound. Read the book. Type a two-paragraph report telling what you learned about sounds from the book.	yes	<ul style="list-style-type: none"> • a book about sound 	
Experiment: Pitch	In this experiment, you will study pitch.	No	<ul style="list-style-type: none"> • metal box, open on one side (a strongbox works well) • three or four rubber bands of different sizes 	
* Experiment: Loudness	In this experiment, you will study the loudness of sound.	No	<ul style="list-style-type: none"> • coffee can with plastic lid • dry cereal 	
Experiment: Hearing Sounds	In this experiment, you will study sound.	No	<ul style="list-style-type: none"> • a clock that ticks • yardstick 	<ul style="list-style-type: none"> • large piece of paper
*Report: How Animals Hear	Choose an animal from the list in the assignment. Research how that animal hears. Write a two-paragraph report about what you have learned.	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 7: TIME AND SEASONS

Assignment	Summary	Video Demo	Supplies
Experiment: The Earth	In this experiment, you will study how the earth's rotation causes day and night.	No	<ul style="list-style-type: none"> • flashlight • paper towel tube • globe • tape
Experiment: Night	In this experiment, you will study night.	No	<ul style="list-style-type: none"> • lamp
Experiment: Rotation	In this experiment, you will study the earth's rotation.	No	<ul style="list-style-type: none"> • clay • two pins • pencils
Experiment: Different Times	In this experiment, you will study time differences.	No	<ul style="list-style-type: none"> • flashlight • globe • a partner
*Report: Months	Choose one of the months of the year. Look in the library for books about months. Write a two-paragraph essay about the month you have chosen.	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: ROCKS AND THEIR CHANGE

Assignment	Summary	Video Demo	Supplies
Experiment: Limestone	In this experiment, you will see what happens when limestone is mixed with vinegar. This experiment uses a knife. You will need an adult to help you.	No	<ul style="list-style-type: none"> • piece of limestone • pocket knife • vinegar • eye dropper
Report: Mount Rushmore	Look up some information on Mount Rushmore and answer the questions in the assignment.	No	<ul style="list-style-type: none"> • research resources
Project: Famous Rocks	Choose a rock from the list in the assignment. Research the rock and write a two-paragraph summary about why it is so special.	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 9: HEAT ENERGY

Assignment	Summary	Video Demo	Supplies
Experiment: Water Molecules	In this experiment, you will see how the molecules of hot water move faster than the molecules of cold water.	No	<ul style="list-style-type: none"> • two clear glasses • food coloring • hot water <ul style="list-style-type: none"> • cold water • eye dropper • clock or timer
Experiment: Changing Liquid to a Gas	In this experiment, you will use heat to change the state of water. This experiment uses the stove. You will need an adult to help you.	No	<ul style="list-style-type: none"> • measuring cup • water • pot or pan <ul style="list-style-type: none"> • pot holder • clock or timer
Experiment: Friction	In this experiment, you will feel the heat made by friction. This experiment uses a hammer. You will need an adult to help you.	No	<ul style="list-style-type: none"> • wood • sandpaper <ul style="list-style-type: none"> • nail • hammer
Experiment: Oxygen and Fire	In this experiment, you will see how fire needs oxygen to burn. This experiment uses matches. You will need an adult to help you.	No	<ul style="list-style-type: none"> • 3 candles • 3 candleholders • 1 quart jar <ul style="list-style-type: none"> • 1 pint jar • Matches • clock or timer
* Experiment: Static Electricity	In this experiment, you will make static electricity.	No	<ul style="list-style-type: none"> • small, flat box • plastic food wrap <ul style="list-style-type: none"> • piece of tissue paper
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A

UNIT 10: REVIEW

Assignment	Summary	Video Demo	Supplies	
Project: Rock Collection	Find five different kinds of rocks where you live. Then go to a library and get a book on rocks. Try to find your rock in the book. Write a short report on your rocks. Group each rock into igneous, sedimentary, or metamorphic. Give a good description of each rock. Tell what you know about it.	No	<ul style="list-style-type: none"> research resources 	
Experiment: How Sound Travels	In this experiment, you will see how sound can travel through objects.	No	<ul style="list-style-type: none"> string wire 	<ul style="list-style-type: none"> chair coat hanger
Experiment: Temperature Comparisons	In this experiment, we will look at color, and the effects of heating.	No	<ul style="list-style-type: none"> two cardboard boxes (same size) black paper white paper 	<ul style="list-style-type: none"> two thermometers glue
*Special Project	Use this Special Project template to create your own assignment for this unit.	N/A	N/A	

* indicates an alternative assignment