

SUNCOAST SCIENCE

FREE LENDING LIBRARY

And Educational Outreach Programs

Resources for Educators and Students Since 2006

ELEMENTARY SCHOOL

5TH GRADE

COURSE	LIBRARY / OUTREACH
UNIT 1 Scientists at Work	What's in Your Water?
UNIT 2 The Solar System and the Universe	Our Star & Outer Space Lab Planets Lab Planetary Shuffle
UNIT 3 Weather Climate and the Water Cycle	Energy House Weather Forecasting Lab Weather Pro Wireless Center What's in Your Water?
UNIT 4 The Nature of Matter	Fact of the Matter Electricity Unplugged Power Up
UNIT 5 Forms of Energy	Energy House Kinetic Energy Ball Drop Gyroscopic Wheel and Turntable Electricity Unplugged Robotics Challenge Power Up Vibration Station
UNIT 6 Working with Electricity	Energy House Electricity Unplugged Power Up
UNIT 7 Forces and Motion	Acceleration Cars Young Isaac Newton
UNIT 8 The Structure of Living Things	Organs on Parade
UNIT 9 Changes in Environments	What's in Your Water?
UNIT 10 Plant and Animal Adaptations	What's in Your Water? Organs on Parade

4TH GRADE

COURSE	LIBRARY / OUTREACH
UNIT 1 Studying Science	Rockin' Geology Robotics Challenge
UNIT 2 Earth's Place in Space	Sky Time
UNIT 3 Rocks, Minerals, and Resources	Rock Collection Rockin' Geology
UNIT 4 Matter and Its Properties	Magnet Kit Thermal Energy Kit Fact of the Matter
UNIT 5 Matter and Its Changes	Salt Water Cars Thermal Energy Kit Chemical Heat Packs Digital pH Meters
UNIT 6 Energy and Its Uses	Energy House Tuning Fork Kit Electricity Unplugged Power Up Robotics Challenge Vibration Station
UNIT 7 Heat	Thermal Energy Kit Energy House
UNIT 8 Forces and Motion	Constant Velocity Cars Acceleration Cars Young Isaac Newton Robotics Challenge
UNIT 9 Life Cycles and Growth	Plant Maze Hydroponics Kit

3RD GRADE

COURSE	LIBRARY / OUTREACH
UNIT 1 Investigating Questions	Young Isaac Newton
UNIT 2 Earth & Stars	Energy House Planetary Shuffle
UNIT 3 Properties of Matter	Thermal Energy Kit Fact of the Matter Ooey Gooney Gloop
UNIT 4 Forms of Energy	Energy House Light Box & Optical Set Electricity Unplugged Vibration Station Young Isaac Newton
UNIT 5 Heat Sources	Thermal Energy Kit
UNIT 6 Plants and the Environment	Plant Maze Hydroponics Kit Six Plant Parts
UNIT 8 Living things Change	Six Plant Parts

2ND GRADE

COURSE	LIBRARY / OUTREACH
UNIT 1 Work Like a Scientist	Fact of the Matter Ooey Gooney Gloop Six Plant Parts
UNIT 2 Earth's Surface	Dino Lite Microscopes
UNIT 3 Weather	Weather Pro Wireless Center Energy House
UNIT 4 All About Matter	Fact of the Matter Ooey Gooney Gloop
UNIT 5 Matter Can Change	Thermal Energy Kit Ooey Gooney Gloop
UNIT 6 Energy	Energy House Electricity Unplugged
UNIT 7 Forces and Motion	Magnet Kit Young Isaac Newton
UNIT 9 Life Cycles	Plant Maze Hydroponics Kit Six Plant Parts
UNIT 10 Basic Needs and Environments	Plant Maze Hydroponics Kit Six Plant Parts

1ST GRADE

COURSE	LIBRARY / OUTREACH
UNIT 1 How Scientists Work	Ooey Gooney Gloop Young Isaac Newton Planetary Shuffle Six Plant Parts
UNIT 2 Objects in the Sky	Dino Lite Digital Microscopes Planetary Shuffle
UNIT 4 Matter	Thermal Energy Kit
UNIT 5 Motion	Planetary Shuffle Young Isaac Newton Ooey Gooney Gloop
UNIT 6 Living Things	Plant Maze Hydroponics Kit Six Plant Parts
UNIT 7 Living Things and Their Parents	Six Plant Parts
UNIT 8 Plant and Animal Needs	Plant Maze Hydroponics Kit Six Plant Parts

KINDERGARTEN

COURSE	LIBRARY / OUTREACH
UNIT 1 Doing Science	Six Plant Parts Planetary Shuffle Ooey Gooney Gloop
UNIT 3 Plants	Plant Maze Hydroponics Kit Six Plant Parts
UNIT 4 Day and Night	Planetary Shuffle
UNIT 5 Matter	Ooey Gooney Gloop
UNIT 6 Energy	Tuning Fork Kit
UNIT 7 Motion	Magnet Kit Planetary Shuffle

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MIDDLE SCHOOL

PHYSICAL SCIENCE

COURSE UNITS	LIBRARY/OUTREACH
Atoms, Molecules & Compounds	Digital pH Meters <i>Fact of the Matter</i> <i>What's in Your Water?</i> <i>Power Up</i> <i>Electricity Unplugged</i>
Physical and Chemical Changes	Thermal Energy Kit Chemical Heat Packs Energy House (physical changes only) Storms Lab (physical changes only) Salt Water Cars
Properties of Matter	Energy Houses Density Kit <i>Fact of the Matter</i> Physical Oceanography Lab <i>Young Isaac Newton</i> Storms Lab Weather Forecasting Lab
Energy Transformations	Energy Houses Gyroscope Kinetic Energy Ball Drop Acceleration Cars
Forces	Kinetic Energy Ball Drop Car & Ramp Lab <i>Young Isaac Newton</i>
Motion	Constant Velocity Cars Gyroscopic Wheel & Turntable Car & Ramp Lab Acceleration Cars <i>Young Isaac Newton</i>
Heat	Weather Lab Storms Lab Energy Houses Physical Oceanography Lab Thermal Energy Kit <i>Fact of the Matter</i>
Light & Sound	Light Box & Optical Set Laser Refraction Tank Laser Prism Set <i>Vibration Station</i>
The Sun's Energy	Our Star & Outer Space Lab

LIFE SCIENCES

COURSE UNITS	LIBRARY/OUTREACH
Cell Theory and Cell Structure	Dino Lite Digital Microscopes Plant & Animal Slide Sets Plant & Animal Cell Models
Classification	Classification: Where Do You Fit?
Genetics	Genetic Corn Activity Principles of Medelian Genetics Lab <i>Dynamic DNA</i>
Evolution of Living Organisms	Fossil Specimen Collection
Body Systems	<i>Organs on Parade</i>
Ecosystems	<i>What's in Your Water?</i>

EARTH & SPACE SCIENCE

COURSE UNITS	LIBRARY/OUTREACH
Earth's Atmosphere	Weather Forecasting Lab Storms Lab Energy Houses
Weather	Energy Houses Storms Lab Weather Forecasting Lab Weather Pro Wireless Center Physical Oceanography
Impact of Natural Disasters	Storms Lab
Earth's Layers and Plate Tectonics	Physical Oceanography Lab Tectonic Sandbox <i>Rockin' Geology</i>
The Earth's Surface	<i>Rockin' Geology</i> <i>What's in Your Water?</i>
Geologic Time	Fossil Specimen Collection
Sun, Earth, Moon System	Physical Oceanography Lab Planets Lab <i>Sky Time</i>
Solar System and the Universe	Our Star & Outer Space Lab Planets Lab <i>Sky Time</i>
The Sun and Stars	Our Star & Outer Space Lab

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HIGH SCHOOL

PHYSICS

COURSE UNITS	LIBRARY/OUTREACH
States of Matter	Gas Pressure Sensors & Temperature Probes
Properties of Matter	Gas Pressure Sensors & Temperature Probes
Atomic Theory	Electricity Unplugged Power Up
Chemical Reactions	Gas Pressure Sensors & Temperature Probes
Motion	Car & Ramp Lab Constant Velocity Car Kinetic Energy Ball Drop Acceleration Cars
Newton's Laws	Constant Velocity Car Kinetic Energy Ball drop Gyroscopic Wheel & Turntable
Work and Energy	Energy House Kinetic Energy Ball Drop
Thermal Energy	Energy House Storms Lab Weather Forecasting Lab Thermal Energy Kit
Properties of Waves	Light Box & Optical Set Laser Refraction Tank Laser Prism Set Waves & Sound Kit
Sound and Light	Light Box & Optical Set Laser Prism Set Light Refraction Tank Waves & Sound Kit
Electricity	Energy House Electricity Unplugged Power Up
Biogeochemical Cycles	Fossil Specimen Collection Energy House

CHEMISTRY

COURSE UNITS	LIBRARY/OUTREACH
Atomic Theory	Electricity Unplugged Power Up
Quantization of Chemistry	Waves & Sound Kit Light Box & Optical Set
Chemical Reactions	Gas Pressure Sensors & Temperature Probes
Classification of Matter	
Water	Physical Oceanography Energy House
Gases	Gas Pressure Sensors & Temperature Probes
Thermochemistry	Energy Houses Gas Pressure Sensors & Temperature Probes
Kinetics of a Reaction	Gas Pressure Sensors & Temperature Probes
Acids and Bases	Digital pH Meters

BIOLOGY

COURSE UNITS	LIBRARY/OUTREACH
Water	Energy House Physical Oceanography Lab
Plant and Animal Cells	Dino Lite Microscopes Plant & Animal Slide Sets Plant & Animal Cell Models
Plant Parts and Photosynthesis	Dino Lite Microscopes Plant & Animal Slide Sets Plant & Animal Cell Models
Genetics	DNA Electrophoresis
Heredity	Principles of Mendelian Genetics Lab Corn Genetics Lab
Evolution	Fossil Specimen Collection
Origin of Life	Fossil Specimen Collection
Classification	Fossil Specimen Collection
Impacts on the Environment	Energy Houses
Human Body	Organs on Parade