Unit: properties of matter

onic propert		
Description:	changing st	ls and gases ates of matter boiling points d solutions anges
Skills:	define matt describe the explain den compare m define chen	ne physical properties of matter er atoms and molecules e 3 states of matter sity and how it relates to volume ixtures and solutions nical change v matter is conserved
Benchmark Assessments:	Other writt	st en assessments en assessments
Instructional Procedures:	(word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 2. Use high 3. Use adva 4. Use dran 5. Use varii (word map) 1. Use KW 3. Use dava 4. Use dran 5. Use varii (word map) 1. Use KW 3. Use adva 4. Use dran 5. Use dava 5. Use varii (word map) 5. Use varii (word map) 5. Use dava 5. Use dran 5. Use dran	New Content & Vocabulary pingsurvey text) L, cues & other strategies so students recall important prior knowledge er level questions so students recall important prior knowledge unce graphic organizers to show structure of the unit na and personal stories to introduce learning goals pus strategies to teach vocabulary - provide example, students stick draw & act wordIntroducing New Content & Vocabulary pingsurvey text) L, cues & other strategies so students recall important prior knowledge er level questions so students recall important prior knowledge ince graphic organizers to show structure of the unit na and personal stories to introduce learning goals pus strategies to teach vocabulary - provide example, students stick draw & act word
Resources:	textbook video hands on m	aterial
STANDARDS STATE: Pennsylva	unia State And	hors
S4.C.1.1.1 (Introd		Use physical properties (e.g., mass, shape, size, volume, color, texture, magnetic property, state (i.e., solid, liquid, gas), conductivity (i.e., electrical, heat) to describe matter.
S4.C.1.1.2 (Introd	uced)	Categorize/group objects using physical characteristics.

This Curriculum Map Unit has no Topics to display

Unit: Envi

This Curriculum Map Unit has no Topics to display

Unit: energy **Description:**

kinetic and potential energy energy transfer solar energy chemical and mechanical energy electricity and sound changing energy forms heat and teperature

	thermal energy transfer nonrenewable energy resources renewable energy resources conservation
Skills:	define potential and kinetic energy compare the kinetic energy of objects dropped from different heights identify various forms of energy explain how energy is changed from one form to another define heat describe how heat is transfered
Benchmark Assessments:	Other written assessments Lab Assignment Written Test Written Test teacher made test Standardized Test Other written assessments
Instructional Procedures:	Using Reading Strategies 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act word
Resources:	textbook handouts hands on material
STANDARDS	

STANDARDS

STATE: Pennsylvania State Anchors		
S4.C.2.1.1 (Introduced)	Identify energy forms and examples (e.g., light, heat, stored, motion, electrical).	
S4.C.2.1.2 (Introduced)	Describe the flow of energy through an object or system (e.g., feeling radiant heat from a light bulb, eating food to get energy, using a battery to light a bulb or run a fan).	
S4.C.3.1.1 (Introduced)	Describe changes in motion caused by forces (e.g., magnetic, pushes or pulls, gravity, friction).	
S4.C.3.1.2 (Introduced)	Compare the relative movement of objects or describe types of motion that are evident (e.g., bouncing ball, moving in a straight line, back and forth, merry-go-round).	

This Curriculum Map Unit has no Topics to display

Unit: electricity

Description:	electricity magnetism electric motors static electricity current electricity conductors and insulators series circuits parallel cicuits drawing circuits
Skills:	describe electricity and relate to magnestism explain how electric motors work explain what causes static electricity and current electricity describe conductors and insulators construct an electric circuit compare how electric currents flows through circuits
Benchmark Assessments:	Lab Assignment Written Test
Instructional Procedures:	Using Summary & Taking Notes Using Reading Strategies 1. Use paired or cooperative reading 2. Students read aloud 3. Use key concept synthesisMaking Comparisons & Contrasts

Making Comparisons & Contrasts

Use similarities & differences with teacher-generated criteria.
 Use similarities & differences with student-generated criteria.
 Use classification to extend student understanding

- 4. Use student created similes, metaphors & analogies to extend understanding
 5. Provide students with explicit instruction on critical thinking skill(s)Using Cooperative Learning & Active Engagement
 1. Violation of the student student and the student student

- Use peer learning
 Use cooperative groups
- Use active learning strategies e.g. peer share, thumbs up/down, whip around the class
 Give students explicit instruction on working cooperatively

Resources:

textbook handouts orgnaizers hands on material

STANDARDS

JIANDARDJ	
STATE: Pennsylvania State Anchors	

S4.C.2.1.1 (Introduced)	Identify energy forms and examples (e.g., light, heat, stored, motion, electrical).
S4.C.2.1.2 (Introduced)	Describe the flow of energy through an object or system (e.g., feeling radiant heat from a light bulb, eating food to get energy, using a battery to light a bulb or run a fan).
S4.C.2.1.3 (Introduced)	Recognize or illustrate simple direct current series and parallel circuits composed of batteries, light bulbs (or other common loads), wire, and on/off- switches.

This Curriculum Map Unit has no Topics to display

Unit: sound a Description:	and light sound energy sound waves sound transmission animals and sound light energy light waves absorption, reflection, and refraction lenses
Skills:	investigate how changes in matter affect sound recognize that sound travels in waves understand that sound is transmitted by vibrations observe how a mirror reflects light explain what light is and how it travels describe the effects of matter on light
Benchmark Assessments:	Other written assessments Student Portfolio Lab Assignment Lab Assignment Lab Assignment
Instructional Procedures:	 Using Writing Strategies 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordProviding Practice 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordProviding Practice 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordProviding Practice 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordMaking Comparisons & Contrasts Using Reading Strategies 3. Use KWL, cues & other strategies so students recall important prior knowledge 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordMaking Comparisons & Contrasts Using Reading Strategies 3. Use KWL, cues & other strategies so students recall

- Use advance graphic organizers to show structure of the unit
 Use drama and personal stories to introduce learning goals
 Use various strategies to teach vocabulary provide example, students stick draw & act word

textbook **Resources:** hands on materials reading and homework support handouts graphic organizers

STANDARDS

red, motion, electrical).
(e.g., feeling radiant heat from a light bulb or run a fan).
arallel circuits composed of batteries, witches.
choes).
1

This Curriculum Map Unit has no Topics to display

Unit: forces and motion

Unit: forces	and motion
Description:	froces, friction, gravity, and magnetic force
	balanced and unbalanced forces
	net and buoyant forces
	machines and work
	compound machines
Skills:	observe that force is needed to move masses under different conditions
	identify different kinds of forces
	understand how friction, gravity, and magnetism affect the motion of an object
	describe balanced and unbalanced forces
	observe how forces interact to affect the motion of an object
	observe that a lever makes it easier to do work
	describe how machines make work easier
Benchmark	Written Test
Assessments:	Other written assessments
///////////////////////////////////////	Narrative Writing Assignment
	Lab Assignment
	Lab Assignment
Instructional	Introducing New Content & Vocabulary
Procedures:	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordMaking Comparisons & Contrasts
	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	 Use advance graphic organizers to show structure of the unit Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordProviding Practice
	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordUsing Reading Strategies
	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordUsing Summary & Taking Notes
	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act word
Resources:	textbook

reading support and homewoork handouts

hands on materials graphic organizers

STANDARDS

STATE: Pennsylvania State Anchors		
S4.C.3.1.1 (Introduced)	Describe changes in motion caused by forces (e.g., magnetic, pushes or pulls, gravity, friction).	
S4.C.3.1.2 (Introduced)	Compare the relative movement of objects or describe types of motion that are evident (e.g., bouncing ball, moving in a straight line, back and forth, merry-go-round).	
S4.C.3.1.3 (Introduced)	Describe the position of an object by locating it relative to another object or the background (e.g., geographic direction, left, up).	

This Curriculum Map Unit has no Topics to display

Unit: motion Description:	forces, motion, speed, and velocity accelerationand momentum Newtons first Law of Motin Newtons second Law of Motion Newtons third Law of Motion motion in space
Skills:	observe factors that affect motion list factors that affect motion define speed, velocity, acceleration, and momentum observe how mass and velocity affect momentum explain the laws of motion compare the motionon earth and in space
Benchmark Assessments:	Narrative Writing Assignment Standardized Test Written Test
Instructional Procedures:	Your Choice Summarizing Generating & Testing Hypotheses 1. Use in problem-solving tasks. 2. Use in investigative tasks. 3. Use in scientific experiments. Your Choice Frayer Model Your Choice One Word Summary Your Choice Picture It Your Choice Known/Unknown Your Choice Picture Conversation Your Choice Word Splash
Resources:	Textbook, United Streaming, Science Lab equipment
STANDARDS STATE: Pennsylvania State A	nchors Describe changes in motion caused by forces (e.g., magnetic, pushes or pu

S4.C.3.1.1 (Introduced)	Describe changes in motion caused by forces (e.g., magnetic, pushes or pulls, gravity, friction).
S4.C.3.1.2 (Introduced)	Compare the relative movement of objects or describe types of motion that are evident (e.g., bouncing ball, moving in a straight line, back and forth, merry-go-round).
S4.C.3.1.3 (Introduced)	Describe the position of an object by locating it relative to another object or the background (e.g., geographic direction, left, up).

This Curriculum Map Unit has no Topics to display

Unit: levers and pulleys Description: Investigation 1

	Levers/simple machine Advantantages for doing work Effort and force needed to move a load Fulcrum, where a lever pivots Load/mass lifted by a lever
	Investigation 2 Leverage Identifying the 3 types of lever set-ups Advantages in a gain in effort, distance, and location of the loads Advantages in the change in direction of the force
	Investigation 3 Pulleys Single pulley system (moveable and fixed) Advantages of moveable system Identify changes in directions Two-pulley system/ advantages in effort, distance, or direction
Skills:	Investigation 1 Setting up a Class 1 Lever Measuring the effort to lift loads when; load remains constant, effort changes effort remains the same, load is moved Organize data during observations Identify relationships between parts of a lever
	Investigation 2 Observation of the different kinds of levers Comparing the effort to different types of levers Diagraming levers in different systems Analyzing tools and identify the type of lever
Benchmark Assessments:	Self Assessment Notebook EntriesInvestigationsTeacher Designed Tests and quizesSelf assessmentClassroom observations
Instructional Procedures:	Providing Feedback Your Choice Generating & Testing Hypotheses 1. Use in problem-solving tasks. 2. Use in investigative tasks. 3. Use in scientific experiments. Introducing New Content & Vocabulary Generating & Testing Hypotheses Using Summary & Taking Notes Using Cooperative Learning & Active Engagement Using Reading Strategies
Resources:	Teacher Edition, FOSS Full Option Science System
	FOSS materials, 5 kits, consumable and nonconsumable materials
	Student Reading, Science Stories Levers and Pulleys
	FOSS website
	Duplication hand-outs
	Teacher designed worksheets
STANDARDS STATE: Pennsylvania	1 State Anchors

S8.C.3.1.3 (Introduced)

Explain that the mechanical advantages produced by simple machines helps to do work (physics) by either overcoming a force or changing the direction of the applied force.

This Curriculum Map Unit has no Topics to display

Unit: weather and water cycle

Description:	the atmosphere heating and local winds prevailling winds water cycle, clouds and precipitation factors that affect the water cycle measuring weather air masses and fronts weather patterns and climates landforms affect climate
Skills:	identify changes in states of water describe the stages of the water cycle explain how the water cycle affects to the weather record weather data recognize how meteorologists predict the weather identify the causes of weather describe the atmosphere recognize how wind forms
Benchmark Assessments:	Written Test Student Portfolio Other written assessments Lab Assignment Dramatization
Instructional Procedures:	 Making Comparisons & Contrasts 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordUsing Summary & Taking Notes Using Writing Strategies 1. Use KWL, cues & other strategies so students recall important prior knowledge 2. Use higher level questions so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students at word using Strategies 1. Use KWL, cues & other strategies so students recall important prior knowledge 3. Use advance graphic organizers to show structure of the unit 4. Use drama and personal stories to introduce learning goals 5. Use various strategies to teach vocabulary - provide example, students stick draw & act word
Resources:	textboob reading and homework handouts hands on materials organizers
STANDARDS	

 STATE: Pennsylvania State Anchors

 S4.D.2.1.1 (Introduced)

 Identify basic clouds types (i.e., cirrus, cumulus, stratus, cumulonimbus) and make connections to basic elements of weather (e.g., changes in temperature and precipitation).

	to basic elements of weather (e.g., changes in temperature and precipitation).
S4.D.2.1.2 (Introduced)	Identify weather patterns from data charts or graphs of the data (e.g., temperature, wind direction, wind speed, cloud types, precipitation).
S4.D.2.1.3 (Introduced)	Identify appropriate instruments (i.e., thermometer, rain gauge, weather vane, anemometer, barometer to study weather and what they measure.

This Curriculum Map Unit has no Topics to display

Unit: earth's oceans

Description:	ocean water and ocean floor changes to the ocean floors waves, currents, tides shorelines and human activities affecting shores mysteries of the oceans
Skills:	observe how salt influences the freezing temperature of water recognizehow how water differs in different parts of the ocean describe what the ocean floor looks like observe that ocean waves are caused by wing understand how ocean waves form identify what causes currents and tides observe how water erodes and deposits sand

Benchmark Assessments:	Written Test Written Test
Assessments: which rest Student Portfolio	
	Other written assessments
	Lab Assignment
Instructional	Introducing New Content & Vocabulary
Procedures:	Providing Practice 1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act wordUsing Summary & Taking Notes 1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	 Use drama and personal stories to introduce learning goals Use various strategies to teach vocabulary - provide example, students stick draw & act wordUsing Reading Strategies
	1. Use KWL, cues & other strategies so students recall important prior knowledge
	2. Use higher level questions so students recall important prior knowledge
	3. Use advance graphic organizers to show structure of the unit
	4. Use drama and personal stories to introduce learning goals
	5. Use various strategies to teach vocabulary - provide example, students stick draw & act word
Resources:	textbook
	hands on materials
	handouts, reading and homework support
STANDARDS	
STATE: Pennsylvar	
S4.B.2.1.1 (Introdu	ced) Identify characteristics for plant and animal survival in different environments (e.g., wetland, tundra, desert, prairie, deep ocean, forest).
S4.B.3.1.1 (Introdu	ced) Describe the living and nonliving components of a local ecosystem (e.g., lentic and lotic systems, forest, cornfield, grasslands, city park or playground).
S4.B.3.1.2 (Introdu	ced) Describe interactions between living and nonliving components (e.g. plants – water, soil, sunlight, carbon dioxide, temperature; animals – food, water, shelter, oxygen, temperature) of a local ecosystem.

This Curriculum Map Unit has no Topics to display

Unit: Environments

Unit: Environ	iments
Description:	Students gain experience with living and nonliving environmental factors in terrestrial and aquatic systems. Organisms maintained in the classroom are used to develop the concepts of environmental factor, range of tolerance, and optimum conditions for survival of populations. Students observe how organisms respond to environmental conditions and how they change their environment.
Skills:	Relating, Organizing, Comparing, Communicating, Observing
Benchmark Assessments:	Other written assessments Lab Assignment Other Visual Assessments Other written assessments Self Assessment Written Test
Instructional Procedures:	Generating & Testing Hypotheses Introducing New Content & Vocabulary Making Comparisons & Contrasts Providing Feedback Using Cooperative Learning & Active Engagement Using Reading Strategies Using Summary & Taking Notes
Resources:	Teachers Edition, FOSS Full Option Science System FOSS Materials, Kits, Consumable and Nonconsumable Materials
	Student Reading, Science Stories, Environments

Google

Library

STANDARDS

STATE: Pennsylvar	ia State Standards	
3.3.4.A (Introduced) Know the similarities and differences of	f living things.
S4.B.1.1	Pennsylvania Science Anchors to Standards Alignment	Identify and describe similarities and differences between living things and their life processes.
3.3.4.B (Introduced) Know that living things are made up of	f parts that have specific functions.
S4.B.1.1	Pennsylvania Science Anchors to Standards Alignment	Identify and describe similarities and differences between living things and their life processes.
3.3.4.C (Introduced) Know that characteristics are inherited	and, thus, offspring closely resemble their parents.
S4.B.2.2	Pennsylvania Science Anchors to Standards Alignment	Identify that characteristics are inherited and, thus, offspring closely resemble their parents.
3.3.4.D (Introduced) Identify changes in living things over tir	ne.

This Curriculum Map Unit has no Topics to display

Unit: the rock cycle Description:	mineral properties rock formation identifying rocks changes in rock rock cycle soil formation
Skills:	classify minerals based on their properties understand what a mineral is identify different mineral properties identify properties of rock recognize the different types of rocks identify the different stages of the rock cycle recognize different ways rocks and landforms are weathered identify the byproducts of ersion
Benchmark Assessments:	Standardized Test Written Test Standardized Test Visual Arts Project
Instructional Procedures:	Introducing New Content & Vocabulary Making Comparisons & Contrasts Providing Practice Using Classroom Organisation Using Cooperative Learning & Active Engagement Using Summary & Taking Notes
Resources:	testbook handouts for reading support minerals video
STANDARDS	
STATE: Pennsylvania State Anc	
S8.D.1.1.1 (Introduced)	Explain the rock cycle as changes in the solid earth and rock types found in Pennsylvania (igneous – granite, basalt, obsidian, pumice, ; sedimentary – limestone, sandstone, shale, coal; and metamorphic – slate, quartzite, marble, gneiss).
S8.D.1.1.2 (Introduced)	Compare and contrast (i.e., geological processes, length of time over which change occurs, factors affecting the rate of change) different types of changes in Earth's surface (e.g., landslides, volcanic eruptions, earthquakes, mountain building, new land being formed, weathering, erosion, edimentation, soil formation).

Unit: fossils	
Description:	earth's history
	fossil formation
	fossils and modern animals
	fossils and modern plants
	unique fossils
Skills:	understand how fossils form
Skills:	recognize ways that fossils help date rock layers
	classify fossils
	compare animal fossils to animals living today
	compare plant fossils to plants living today
Benchmark	Written Test
Assessments:	Standardized Test
	Other written assessments
	Lab Assignment
	Lab Assignment
Instructional	Introducing New Content & Vershuler
Procedures:	Introducing New Content & Vocabulary
Procedures:	Making Comparisons & Contrasts
	Using Reading Strategies
	Using Summary & Taking Notes
	Using Summary & Taking Notes
Resources:	textbook
	reading supportand practice handouts
	hands-on material
STANDARDS	
STATE: Pennsylvania State A	nchors
S8.D.1.1.2 (Introduced)	Compare and contrast (i.e., geological processes, length of time over which change occurs,
(factors affecting the rate of change) different types of changes in Earth's surface (e.g.,
	landslides, volcanic eruptions, earthquakes, mountain building, new land being formed,
	weathering, erosion, edimentation, soil formation).
S& D 1 1 4 (Introduced)	Evaluin how fossils provide evidence about plants and animals that lived long ago throughout

S8.D.1.1.4 (Introduced) Explain how fossils provide evidence about plants and animals that lived long ago throughout Pennsylvania's history (e.g., fossils provide evidence of different environments).

This Curriculum Map Unit has no Topics to display