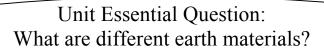
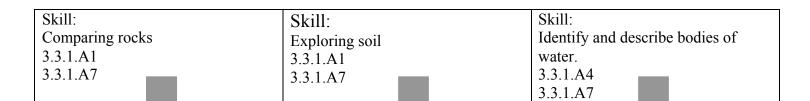
Student Learning Map for Unit Topic: Earth and Space Sciences

Big Idea: Earth is made up of water and land.





Lesson Essential Questions:	Lesson Essential Questions:	Lesson Essential Questions:	
How are rocks different?	What's in dirt?	What is the difference between fresh and salt water?	
How many ways can rocks be sorted?	Are all soils the same?		

Vocabulary	y:	Vocabulary:		Vocabulary:
Rock Dust Geologist Separate Texture Basalt Tuff	Scoria Sand Silt Pebble Gravel	Humus Soil Ingredients Sample Silt Sand Gravel	Pebbles Clay	Oceans Rivers Lakes Ponds Streams

Big Idea: Plants grow from seeds

Unit Essential Question How do plants grow and change?

Skill: Parts of a plant 3.1.3.A5

Skill:

What a plant needs to grow

3.1.1.B1

3.1.1.A2

Skill:

Comparing plants

3.1.1.B6



What are the parts of a plant?

What are the functions of each part of a plant?

Lesson Essential Questions:

What does a plant need to grow?

Lesson Essential Questions:

How do you compare seedlings and adult plants?







Root

Pollen Function

Seed Leaf

Sprout Flower

Brassica Grass

Grass wheat Vocabulary:

Air Soil

Sun's energy

Water Nutrients growth Vocabulary:

Seedlings Comparison Change

observation

Big Idea: Light is everywhere is our world.

Unit Essential Question: What can we learn from light?

Skill:
Investigate how light travels through different materials
3.2.1.B5
3.3.1.B3

Skill:
Explore shadows
3.2.1.B5
3.3.1.B3

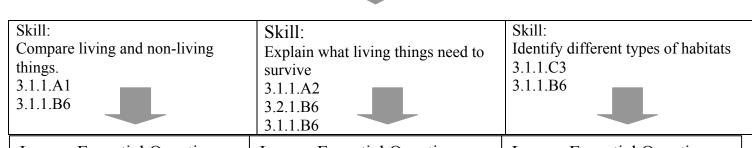
Lesson Essential Questions:	Lesson Essential Questions:	Lesson Essential Questions:
How does light travel through different materials?	What is a shadow? How does a shadow change at various time during the day?	What does a prism do to white lights? What does a mirror redirect light?

Vocabulary: Sun Light Shadow	Vocabulary: Prism Light Mirror Bend Reflect Redirect	Vocabulary: Translucent Transparent Opaque	
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Student Learning Map for Unit Topic: Organism and Cells/Evolution

Big Idea: All things can be categorized as living and non-living.

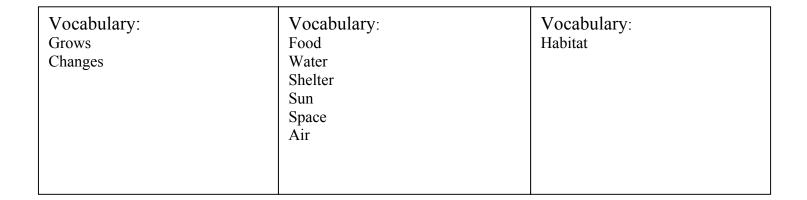
Unit Essential Question: How can things in our world be classified?



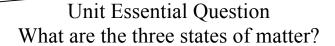
Lesson Essential Questions: What are living things found in our world? What do living things need to world? What do living things need to habitats? Lesson Essential Questions: What are different types of habitats?

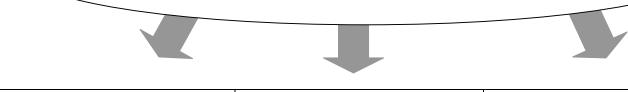
world? survive? habitats?

What are non-living things found in our world?



Big Idea: Everything is made of matter





Skill: Solids and liquids have properties 3.2.1.A1 3.2.1.A5 3.2.1.A6 Skill:
Solids and liquids can be mixed
3.2.1.A4
3.2.1.A6

Skill: Matter can change states 3.2.1.A3 3.2.1.A6

Lesson Essential Questions:

How can solids be described?

How can solids be sorted by their properties?

Lesson Essential Questions:

What happens when different solids are mixed with water?

What happens when water is mixed with different liquids?

Lesson Essential Questions:

How does matter change its state?

What happens when a substance is heated or cooled?

What changes are reversible and not reversible?







Vocabulary
Properties
Solid
Flexible
Property
Rigid
Rough
Smooth
Transparent
Opaque
Soft
Hard
Bubbly
Has color
Colorless
foamy

translucent transparent viscous Vocabulary: Mixture Change Dissolve Change Vocabulary: Heat Melt Cool freezing

reversible matter

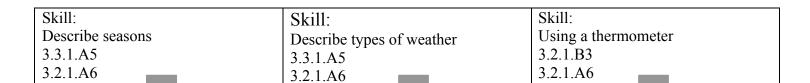
Student Learning Map for Unit Topic: Physics

Big Idea: Objects can move. Unit Essential Question: How can objects move? Skill: Skill: Skill: Describe the motion as push or pull. **Explore magnets** 3.2.1.B1 3.2.1.B1 3.4C (PALSEC) 3.2.1.A6 3.2.1.A6 **Lesson Essential Questions: Lesson Essential Questions:** Lesson Essential Questions: What is motion? What is a magnet? What is a push? What is a pull? What types of objects do magnet attract? Why do magnets sometime repel each other? Vocabulary: Vocabulary: Vocabulary: Motion Magnet Push Attract Pull Repel Positive Negative Force

Big Idea: Weather changes with the seasons.

Unit Essential Question:

How can weather be observed and recorded in various seasons?



Lesson Essential Questions:	Lesson Essential Questions:	Lesson Essential Questions:
What are the four seasons? How are the four seasons different?	What are different types of weather?	How is a thermometer read?

Vocabulary:	Vocabulary:		Vocabulary:
Seasons	Snow	Foggy	Thermometer
Fall	Hail	Stormy	Temperature
Winter	Wind	Meteorologist	Fahrenheit
Spring	Rain	_	Degrees
Summer	Sleet		_
Changes	Cloudy		
	Sunny		
	Frost		