Grade:	3

Subject: <u>Science</u>



Essential Question #1	Why are plants important as living things and as producers?
Essential Question #2	How can we use the physical properties of seeds to classify them?
Essential Question #3	How does a new plant grow from a seed?
Essential Question #4	What are some ways to grow new plants?
Essential Question #5	What are the different stages in the life cycle of a green plant?
Essential Question #6	How is each plant part important to the plant as a whole?

Grade: <u>3</u>

Essential Question #1

Subject: Science

Unit: <u>Plants</u>

Why are plants important as living things and as producers?

СТ

		LEVEL
Objective/Skill #1	Compare traits or plants and animals	К
Objective/Skill #2	Explain the role of plants as producers in a food chain.	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Compare traits of plants and animals.

Complete Venn diagram comparing plant and animals traits.

Grade: <u>3</u>	Essential Question #2
Subject: <u>Science</u>	How can we use the physical properties of seeds to classify them?
Unit: <u>Plants</u>	

		CT LEVEL
Objective/Skill #1	Describe a seeds physical properties.	К
Objective/Skill #2	Sort and classify seeds according to physical traits / properties.	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Scientific drawings and writing of seeds.

Use a sort mat to sort seeds.

Grade: <u>3</u>	Essential Question #3
Subject: <u>Science</u>	How does a new plant grow from a seed?
Unit: <u>Plants</u>	

		CT LEVEL
Objective/Skill #1	Identify the parts and functions of a seed.	K
Objective/Skill #2	Construct a model of a seed.	AP
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Estec Kit (Positively Plants)

Draw / construct a seed.

Grade: <u>3</u>	Essential Question #4
Subject: <u>Science</u>	What are some ways to grow new plants?
Unit: _Plants	

		CT LEVEL
Objective/Skill #1	Identify ways in which seeds are dispersed.	K
Objective/Skill #2	Discuss and chart various ways of seed dispersal.	U
Objective/Skill #3	Record observations of a propagation demonstration	K
Objective/Skill #4		
Objective/Skill #5		

Estec Kit (Positively Plants)

Propagation demonstration activity

Subject: Science

Unit: Plants

Essential Question #5

What are the different stages in the life cycle of a green plant?

СТ

		LEVEL
Objective/Skill #1	Explain the stages of a plant's life span.	U
Objective/Skill #2	Predict the needs of a plant in order to grow, live, and thrive.	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Estec Kit (Positively Plants)

Grow observe, and record the life span of plants.

Subject: Science

Unit: Plants

Essential Question #6

How is each plant part important to the plant as a whole?

СТ

		LEVEL
Objective/Skill #1	Identify and label the parts of a plant.	AP
Objective/Skill #2	Explain function and importance of each plant part.	S
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Estec Kit (Positively Plants)

Create a mobile about the part of a plant.

Mailbox activity

Grade: 3

Subject: <u>Science</u>

<u>Unit</u> Animal Adaptations

Essential Question #1	How do you classify animals?
Essential Question #2	Why do different animals have different body coverings?
Essential Question #3	
Essential Question #4	
Essential Question #5	

Essential Question #1

Grade: <u>3</u> Subject: <u>Science</u> Unit: <u>Animal Adaptations</u>

How do you classify animals?

		CT LEVEL
Objective/Skill #1	Students will characterize the traits of vertebrates.	U
Objective/Skill #2	Sort animals into correct classifications	AP
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

ESTEC kit Animal Adaptations

Sort animal pictures into appropriate classifications

Grade: <u>3</u>

Essential Question #2

Subject: <u>Science</u> Unit: <u>Animal Adaptations</u>

Why do different animals have different body coverings?

		CT LEVEL
Objective/Skill #1	Understand the purpose of different animal coverings.	U
Objective/Skill #2	Explain the effect of pollution on animals.	S
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

ESTEC kit Animal Adaptions (Animals and their coverings)

Grade: <u>3</u>	<u>Unit</u>
Subject: <u>Scie</u>	nce Energy
Essential Question #1	What is NRG?
Essential Question #2	How is energy transformed from one type to another?
Essential Question #3	How can we get more energy?
Essential Question #4	
Essential Question #5	

Grade: <u>3</u> Subject: <u>Science</u> Unit: <u>Energy</u>			Essential Question #1	
			What is NRG?	
				CT LEVEL
Objective/Skill #1	Explain what energy	/ is		E
Objective/Skill #2	Identify types of en	ergy		K
Objective/Skill #3	Determine source o	f energy		A
Objective/Skill #4				
Objective/Skill #5				

ESTIC kit "Energy Antics"

Grade: <u>3</u>	Essential Question #2
Subject: <u>Science</u>	How is energy transformed from one type to another?
Unit: <u>Energy</u>	

		CT LEVEL
Objective/Skill #1	Define energy transformation	K
Objective/Skill #2	Demonstrate transfer of energy through a closed circuit	U
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

ESTIC kit "Energy Antics"

Grade: <u>3</u>	Essential Question #3
Subject: <u>Science</u>	How can we get more energy?
Unit: <u>Energy</u>	

		CT LEVEL
Objective/Skill #1	Identify renewable energy sources.	U
Objective/Skill #2	Create poster encouraging people to conserve energy.	U
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Poster designing

Solar car (ESTEC Kit)

Grade: <u>3</u> Subject: <u>Scie</u>	<u>nce</u> Matter
Essential Question #1	What is matter?
Essential Question #2	What are physical properties?
Essential Question #3	What is a phase change?
Essential Question #4	
Essential Question #5	

Grade: <u>3</u>	Essential Question #1
Subject: <u>Science</u>	What is Matter?
Unit: <u>Matter</u>	

СТ

		LEVEL
Objective/Skill #1	Define what matter is	К
Objective/Skill #2	Identify states of matter	К
Objective/Skill #3	Characterize the traits of each state of matter	U
Objective/Skill #4		
Objective/Skill #5		

Activities that you may opt to use with objectives/skills being taught above

List examples of each state of matter.

Make "The Alphabet of Matter"

Sort pictures into the three states of matter.

Grade: <u>3</u>	Essential Question #2
Subject: <u>Science</u>	What are physical properties?
Unit: <u>Matter</u>	

		CT LEVEL
Objective/Skill #1	Name the seven physical properties	к
Objective/Skill #2	Describe an object using the seven properties	AP
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Children secretly select an object, describe it by its physical properties.

Observing and record properties of crystals in Science Lab.

Grade: <u>3</u>	Essential Question #3
Subject: <u>Science</u>	What is a phase change?
Unit: <u>Matter</u>	

		CT LEVEL
Objective/Skill #1	Explain what causes matter to change	U
Objective/Skill #2	Identify the differences between physical and chemical change	К
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Experiment with vinegar and baking soda.

Ice cubes races.

Make jello and goo-yuk experiments.

Grade: <u>3</u>	
Subject: <u>Scie</u>	<u>nce</u> Duttermes
Essential Question #1	What is the life cycle of a butterfly?
Essential Question #2	What differences are there between a butterfly and a moth?
Essential Question #3	
Essential Question #4	
Essential Question #5	

Grade: <u>3</u>	Essential Question #1
Subject: <u>Science</u>	What is the life cycle of a butterfly?
Unit: <u>Butterflies</u>	

		CT LEVEL
Objective/Skill #1	Articulate the stages of butterfly life cycle	U
Objective/Skill #2	Define the traits of each stage of the lifecycle	U
Objective/Skill #3	Sketch the stage of the life cycle	A
Objective/Skill #4	Observe and record the lifecycle changes of living specimens	A
Objective/Skill #5		
_		

Hand motions to dramatize life cycle

Illustrate the life cycle of a butterfly

ESTEC kit (Butterflies and Moths)

Order manipulative of each stage

Grade: <u>3</u>	Essential Question #2	
Subject: <u>Science</u>	What differences are there between a butterfly and a moth?	
Unit: <u>Butterflies</u>		
		СТ

		LEVEL
Objective/Skill #1	Identify traits of butterfly	ĸ
Objective/Skill #2	Identify traits of a moth	ĸ
Objective/Skill #3	Compare and contrast butterfly and moth using a Venn diagram	Α
Objective/Skill #4		
Objective/Skill #5		

T Chart moth and butterfly traits

Scrutinize pictures of butterflies and moths

Grade: <u>3</u> Subject: <u>Scier</u>	nce Unit Weather
Essential Question #1	How do we record weather information?
Essential Question #2	What is the water cycle?
Essential Question #3	What are the different types of clouds?
Essential Question #4	
Essential Question #5	

Grade: <u>3</u>	Essential Question #1	
Subject: <u>Science</u>	How do we record weather information?	
Unit: <u>Weather</u>		

СТ

		LEVEL
Objective/Skill #1	Read a thermometer	AP
Objective/Skill #2	Use weather symbols to observe and record weather data	AP/U
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Activities that you may opt to use with objectives/skills being taught above

Reading thermometers

Daily observance of weather and report to class

Grade: <u>3</u>	Essential Question #2
Subject: <u>Science</u>	What is the water cycle?
Unit: <u>Weather</u>	

	CT LEVEL
Learn the process of the water cycle	K
Explain each phase of the water cycle	C

Water cycle song

Water cycle demonstrations

Illustrate the water cycle

H2O bracelets

Grade: <u>3</u>	Essential Question #3	
Subject: <u>Science</u>	What are the different types of clouds?	
Unit: <u>Weather</u>		

		CT LEVEL
Objective/Skill #1	Identify the types of clouds	C
Objective/Skill #2	Match clouds with the weather they may produce	ĸ
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Cotton clouds at their proper altitude

Cloud Book by Tomie De Paola

Subject: <u>Science</u>

<u>Unit</u> Simple Machines

Essential Question #1	How do machines work?
Essential Question #2	
Essential Question #3	
Essential Question #4	
Essential Question #5	

Grade:	3

Subject: Science

Unit: Simple Machines_

Essential Question #1

How do machines work?

СТ

		LEVEL
Objective/Skill #1	Explain the purpose of machines	C
Objective/Skill #2	Define force energy and work	С
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Activities that you may opt to use with objectives/skills being taught above

Make butter 1 group shake in jar 2nd group use an electric mixer

I'm thinking of a machine.... (I'm thinking of a machine that opens cans)

Forceful Charades- Simple Machines book pgs 7-16-21

Grade: <u>3</u>

Subject: Science

Unit: Simple Machines

Essential Question #2

What are Simple Machines?

		CT LEVEL
Objective/Skill #1	Define different types of Simple Machines	К
Objective/Skill #2	Sort machines into their different categories	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Activities that you may opt to use with objectives/skills being taught above

Science Lab hands on models to work identification

Walking school tour to locate use of simple machines

Class sets of simple machines and machines we use

Grade: <u>3</u>

Subject: Science

Unit: Simple Machines

Essential Question #3

What are Compound Machines?

		CT LEVEL
Objective/Skill #1	Explain what a compound machine is	K
Objective/Skill #2	Categorize a machine as simple or compound	AN
Objective/Skill #3		
Objective/Skill #4		
Objective/Skill #5		

Activities that you may opt to use with objectives/skills being taught above

Mailbox activity Tilted Compound Machines pg 37

Identify objects as a simple or compound machine.