

Vocabulary Word Icons used in these slides are from: https://thenounproject.com/
These slides were adapted from work by Joshua Blackburn, Tristan Kirkland, and Stephanie Walley

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	Lesson 3 Four Seasons in One Year	Lesson 3 Four Seasons in One Year	
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	Lesson 5 The Life Cycle of Trees	Lesson 5 The Life Cycle of Trees	
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	Link to Lesson Slides	Youtube Video Links
	Lesson 6 Which Came First, the Chicken or the Egg?	Lesson 6 Which Came First, the Chicken or the Egg?
	Lesson 7 The Life Cycle of a Frog	Lesson 7 The Life Cycle of a Frog
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LESSON OBJECTIVES

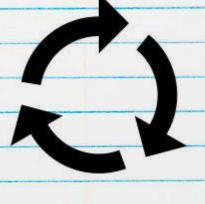
Students will:

- Explain that a cycle is a sequence of events that repeats itself again and again
- Recognize that the rotation of the Earth causes daytime and nighttime
 - Explain that it takes 24 hours for Earth to rotate once on its axis
- Recognize that living things have a life cycle

 Axis - a real or imaginary central line around which an object spins



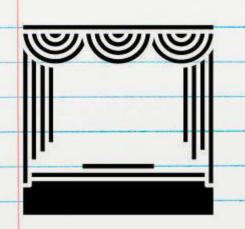
 Cycle - the period of time it takes to complete a sequence of events

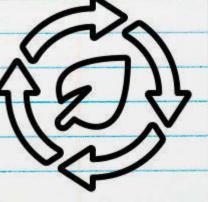


 Rotating - turning around a central or main point



stage - a particular time in the growth of something





 Thrive - when a living thing grows and develops well.

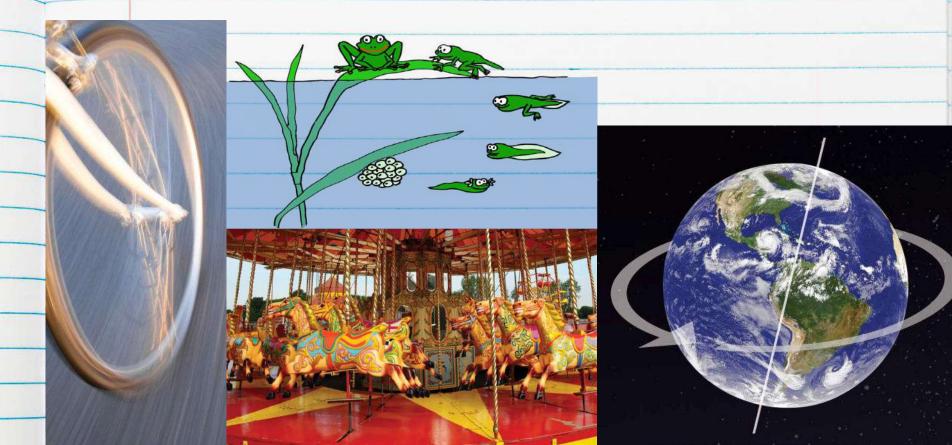


Cycles in Nature

Lesson 1

Video

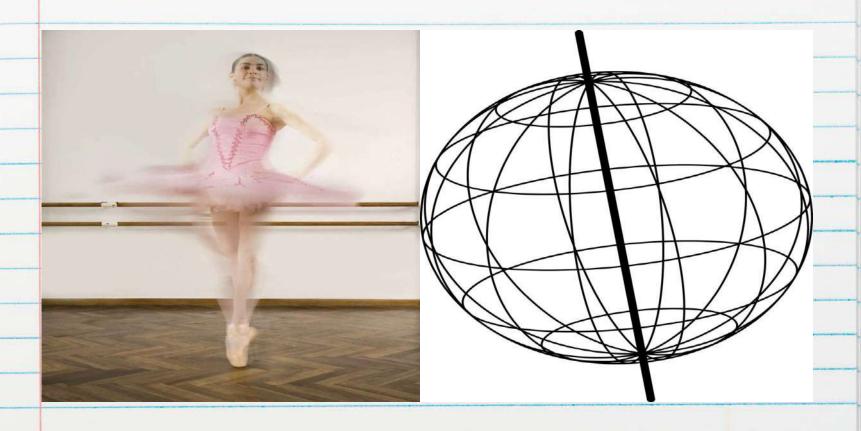
THINGS THAT GO ROUND AND ROUND



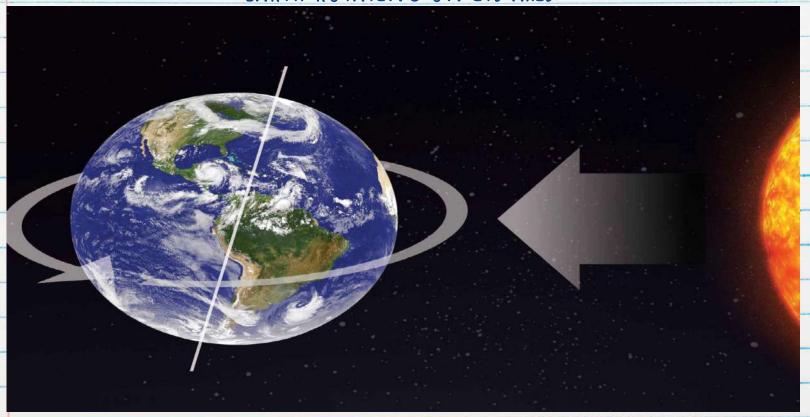
LIVING THINGS AND THEIR YOUNG



SPINNING



EARTH ROTATING ON ITS AXIS



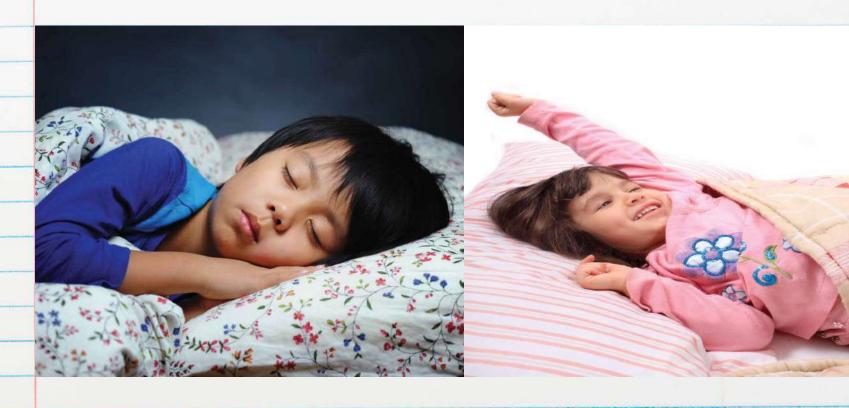
SUNRISE



SUNSET



SLEEPING AND WAKING UP



What is the main idea of today's text?

- What is a cycle?
- What causes daytime and nighttime?
- How does the rotation of Earth cause daytime and nighttime?
- What is the difference between daytime and nighttime? What about the light?

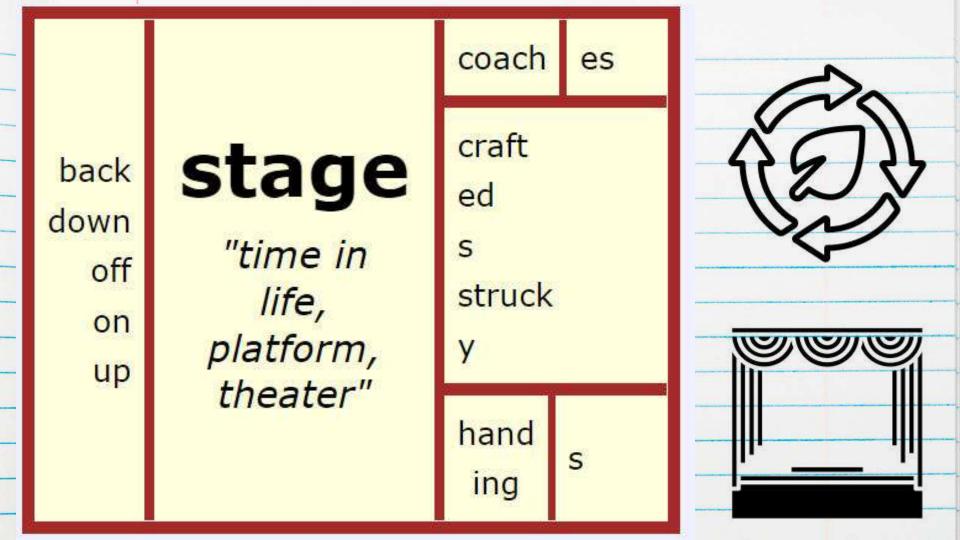
How would life on Earth be different if Earth did not rotate?

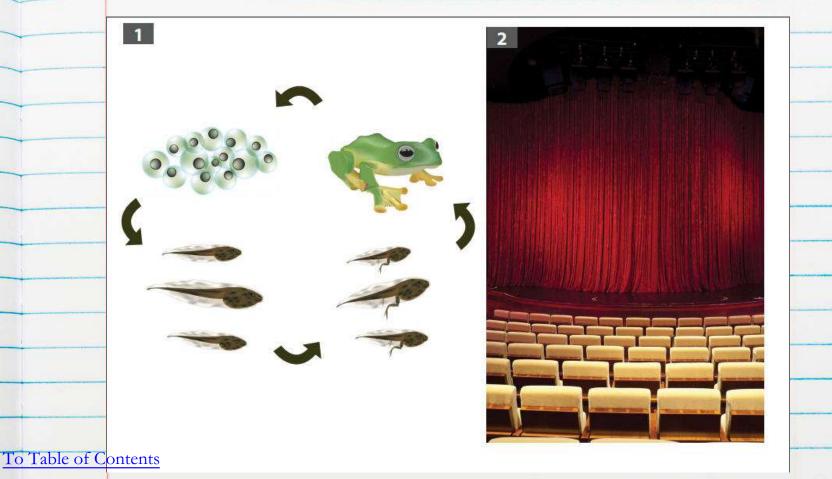
Say the word <u>stage</u>

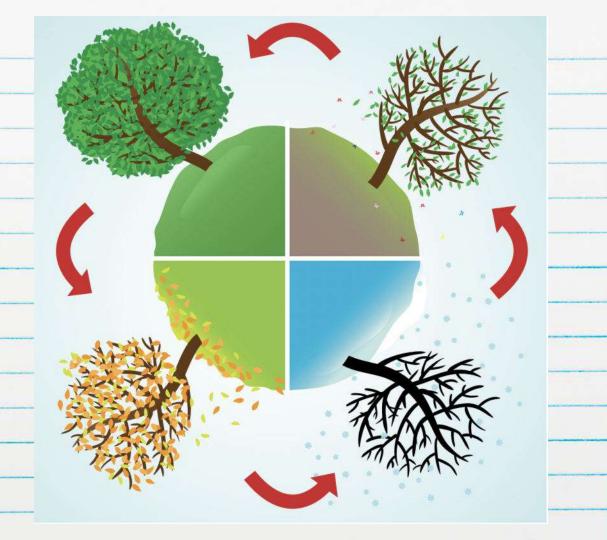
Stage means a particular time in the growth of something

One <u>stage</u> in the life cycle of a butterfly is the chrysalis

Can you think of the <u>stages</u> of growth of humans?







Sun Video
https://jr.brainpop.com/science/space/sun/

DATE:

1. When it is daytime for me, my town is facing

Toward the Sun



Away from the Sun



2. When it is nighttime for me, my town is facing

Toward the Sun



Away from the Sun



TAKE-HOME

NAME:	1.2	Take
DATE:		

Dear Family Member,

During the next several days, your child will learn about cycles and explore some of the different types of cycles that occur in nature. Your child will be introduced to the reasons why we have daytime and nighttime and the four seasons on planet Earth, and to the different seasonal changes that affect the life cycles of plants and trees. Below are some suggestions for activities that you may do at home to reinforce what your child is learning about cycles in nature.

1. Personal Connections

Share with your child your favorite season and the different experiences from your own childhood connected with seasonal changes. Emphasize the changes observed in plants and animals. Ask your child what favorite memories s/he has of a particular season shared with you and your family.

2. Draw and Write

Have your child draw and/or write what s/he has learned about seasonal cycles and the life cycles of plants. Ask questions to help your child use the vocabulary learned at school.

3. Words to Use

Below is a list of some of the words that your child will be learning about and using. Try to use these words as they come up in everyday speech with your child.

- · revolve-It takes one year for Earth to revolve around the sun.
- hibernation—Some animals have longer periods of winter hibernation than others.
- cycles—Planet Earth has many cycles, such as day and night, the seasons, and life cycles of plants and animals.

4. Read Aloud Each Day

Set aside time to read aloud to your child every day. The local library has many books on cycles in nature. Find a short list of books relevant to this topic below.

Recommended Resources

Read Leaf. Yellow Leaf. by Lois Extert (Harcourt. Inc.; 1991) ISBN 978-0152651977 Sumflower House, by Eve Burtting (HMH Books for Young Readers, 1999) ISBN 978-0152019525 The Snowtfake: A Water Cycle Story, by Neil Waldman (Milbrook Press, 2003) ISBN 978-0761323471

Knowledge 6 Cycles in Nature

LESSON? Video HEREASONS FOR THE

SEASONS

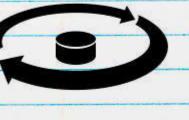
LESSON OBJECTIVES

Students will:

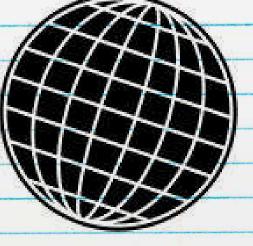
- Explain that a cycle is a sequence of events that repeats itself again and again
- Recognize that the rotation of the Earth causes daytime and nighttime
 - Explain that it takes 24 hours for Earth to rotate once on its axis
- Recognize that living things have a life cycle
- Recognize the Earth orbits the Sun
 - Describe the seasons

 Equator - an imaginary line that divides the Earth into the Northern and Southern Hemispheres

 hemisphere- Half of Earth as divided north and south by the equator or east and west by the Prime Meridian revolves- moves in a circular path or orbit around an object



tilt- to slant or place at an angle



Cycles in Nature

Lesson 2

<u>Video</u>

EARTH ROTATING ON ITS AXIS

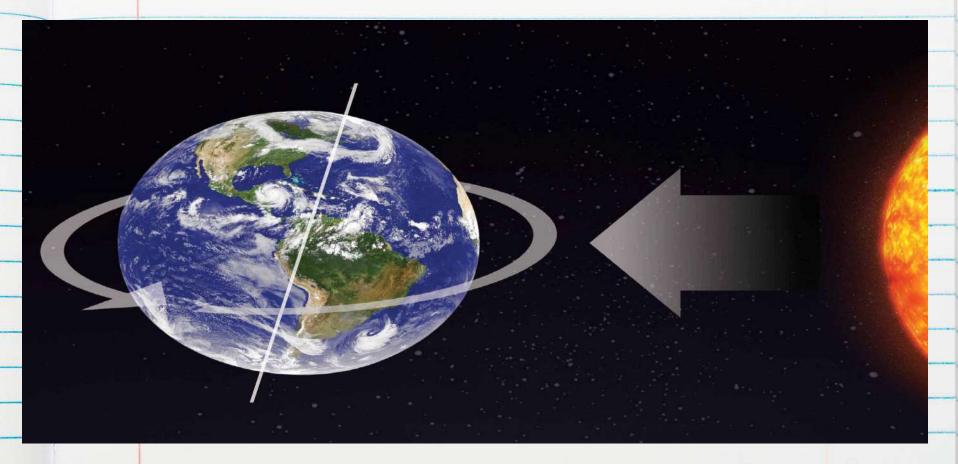
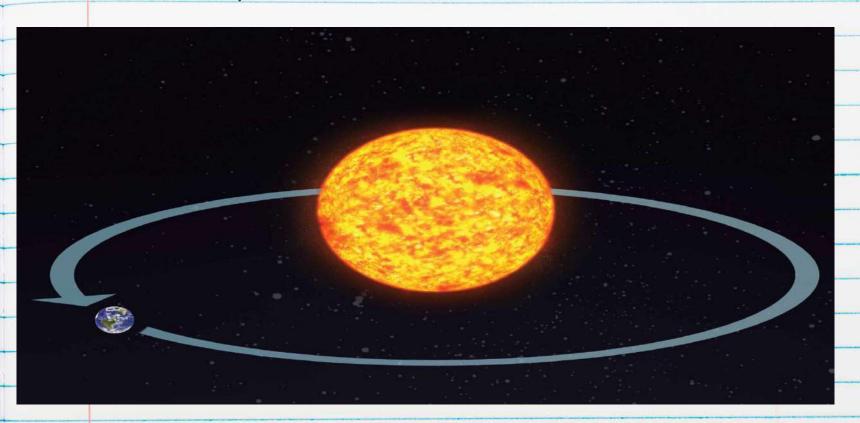
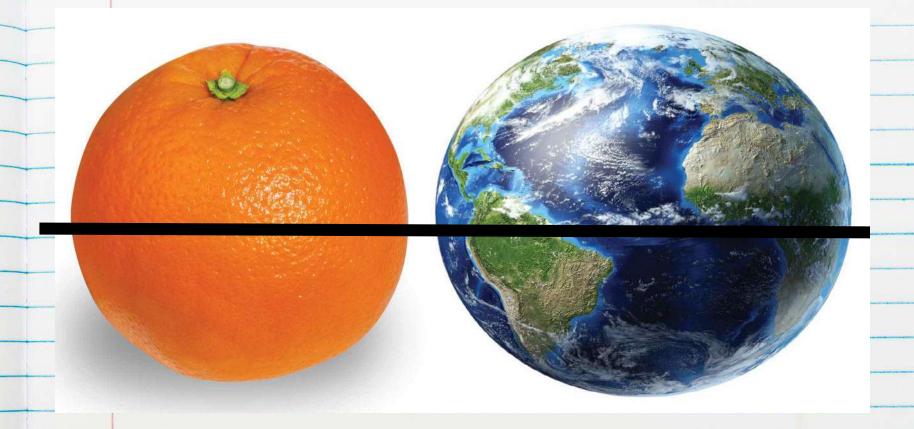


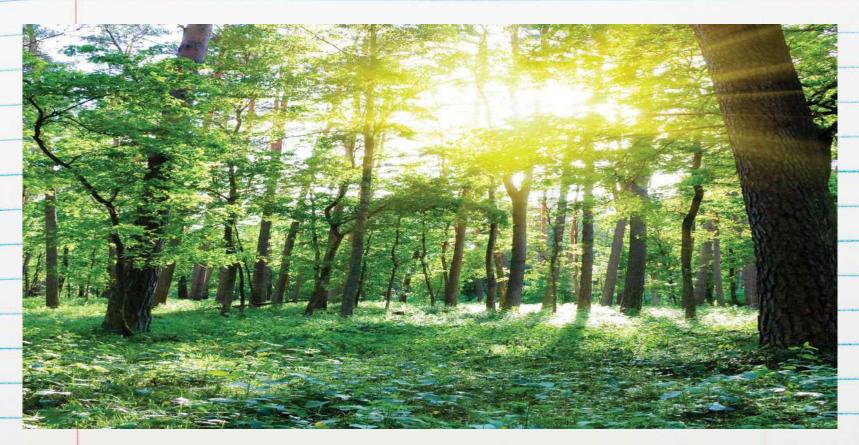
DIAGRAM OF EARTH REVOLVING AROUND THE SUN



HEMISPHERES



NORTHERN SUMMER



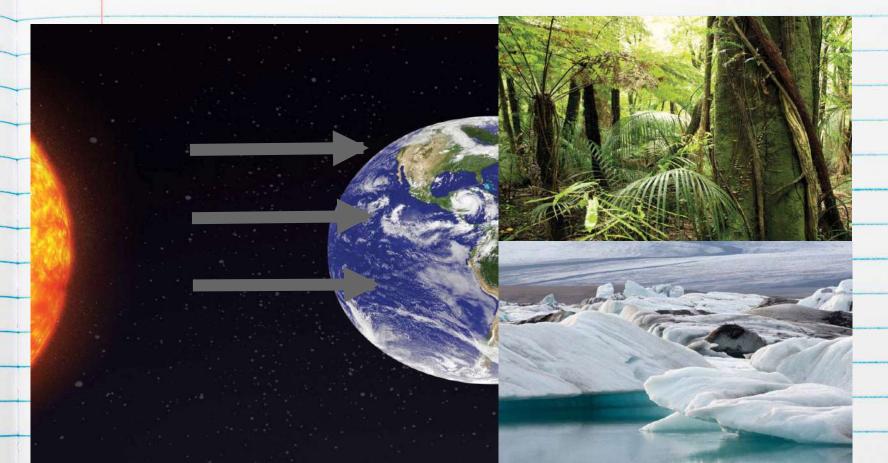
NORTHERN WINTER



NORTHERN SPRING AND FALL



LIGHT HITTING EARTH



FOUR SEASONS





To Table of Contents

COMPREHENSION QUESTIONS

- What is the main idea of today's text?
- Name the four seasons in order.
- How long does it take Earth to orbit or revolve around the Sun?
- In what hemisphere do you live?
- The first day of summer is called the summer solstice. What is special about this day? What is the winter solstice?

COMPREHENSION QUESTIONS

- What do the first day of spring and the first day of autumn have in common?
- How are plants and animals affected by the seasonal cycle?
 - Does the part of Earth near the equator experience seasons?
- Do the North and South poles experience seasons?

tilt

"slant"

Word Work Tilt

ed ing



What does the word **tilt** mean?

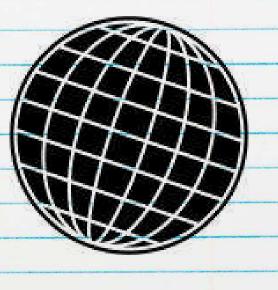
When is a time we might **tilt** our head?



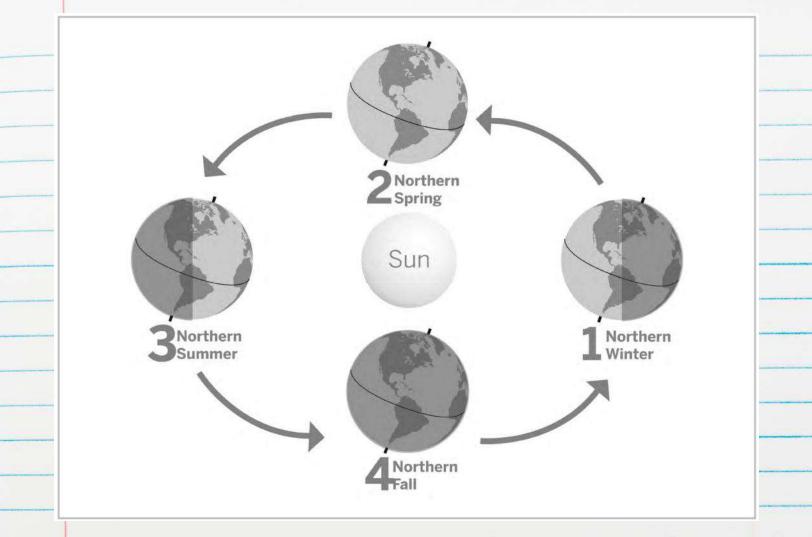
To Table of Contents

THINK-PAIR-SHARE

How does the **tilt** of the earth affect the seasons you experience living in the Northern Hemisphere?







Z.1

NAME: DATE:

Activity Pa

Bed in Summer

by Robert Louis Stevenson

In winter I get up at night And dress by yellow candle-light. In summer, quite the other way, I have to go to bed by day. I have to go to bed and see The birds still hopping on the tree, Or hear the grown-ups people's feet Still going past me in the street. And does it not seem hard to you, When all the sky is clear and blue, And I should like so much to play, To have to go to bed by day?



"BED IN SUMMER" QUESTIONS

- How does the poet use rhyming words in the poem?
- How does this poem relate to the tilt of the earth?
 - Do we get more sunlight in the summer or in the winter?
 - Why does Robert Louis Stevenson say, "In winter I get up at night"?
 - Why does he say, "In summer, quite the other way, I have to go to bed by day"?
- How does the poet feel about going to bed in summer?

WINTER SOLSTICE

13 FASCINATING WINTER SOLSTICES

SUMMER SOLSTICE

TOP & SUMMER SOLSTICES

LESSON 3 **Video** FOUR SFASONS IN

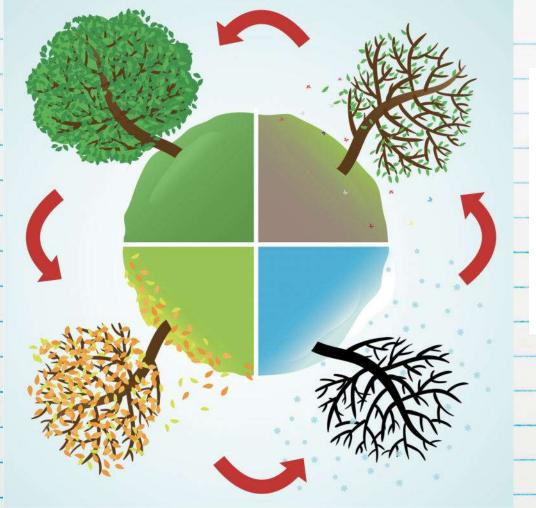
ONEYEAR

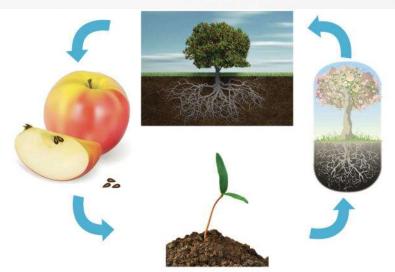
LESSON OBJECTIVES

Students will:

- Explain that a cycle is a sequence of events that repeats itself again and again
- Recognize that living things have a life cycle
 - Describe the seasonal cycle: spring, summer, autumn, winter
- Identify the title of the Earth's axis in relation to the sun causes seasons
- Explain effects of seasonal changes on plants and animals
- Describe animal processes during each season

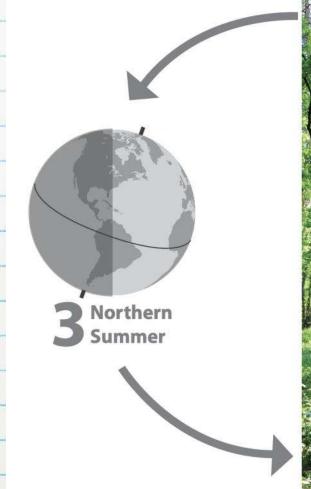






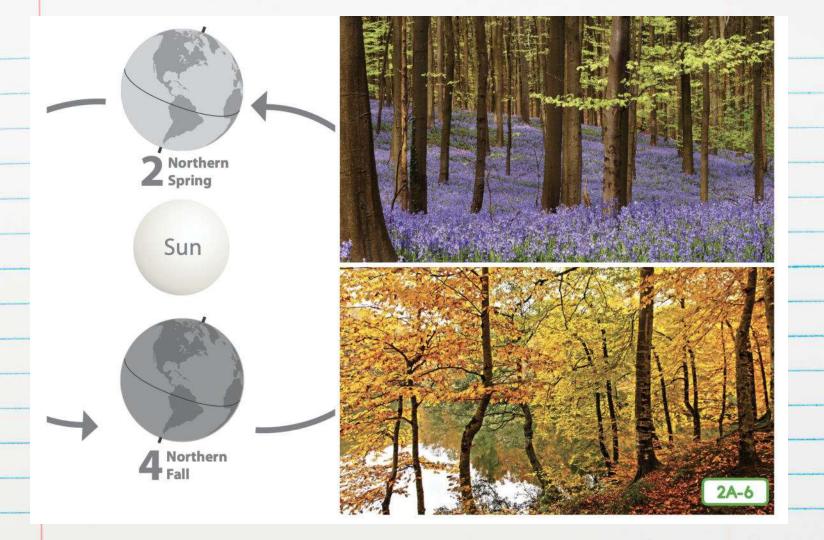
Northern Seasons Chart						
	Spring	Summer	Autumn/Fall	Winter		
Date Season Begins						
Amount of Sunshine						
Temperature						
Plants						
Animals						
Activities/Clothing						

Northern Seasons Chart							
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Date Season Begins	Spring equinox; a round March 21	Summer solstice; around June 21	Autumn equinox; around Sept. 21	Winter solstice; around Dec. 21			
Amount of Sunshine	Roughly the same number of daylight and dark hours	More daylight hours than dark hours; it stays light out later	Roughly the same number of daylight and dark hours	Fewer daylight hours than dark hours; it gets dark earlier			
Temperature	Warmer	Hotter	Cooler	Colder			
Plants							
Animals							
Activities/Clothing							





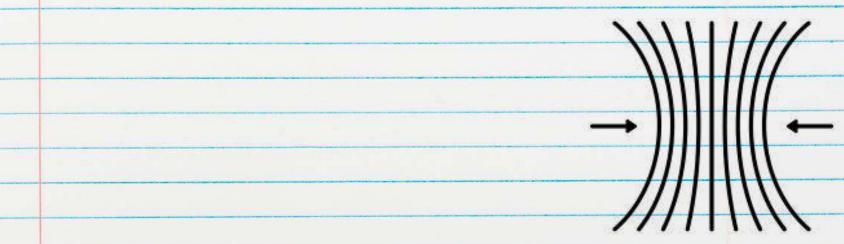




absorbed - took in or soaked up



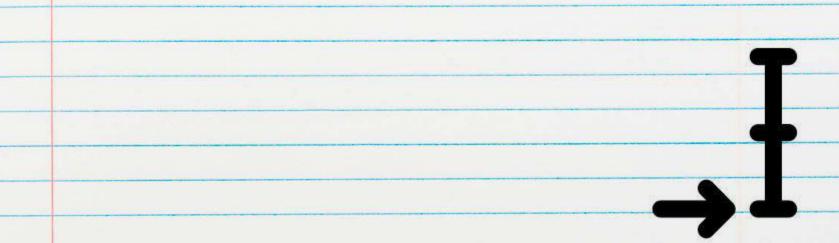
 adapt- to adjust or change to better suit one's environment



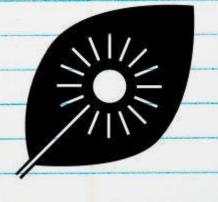
migrate- to move from one place to another



minimum- the least amount possible



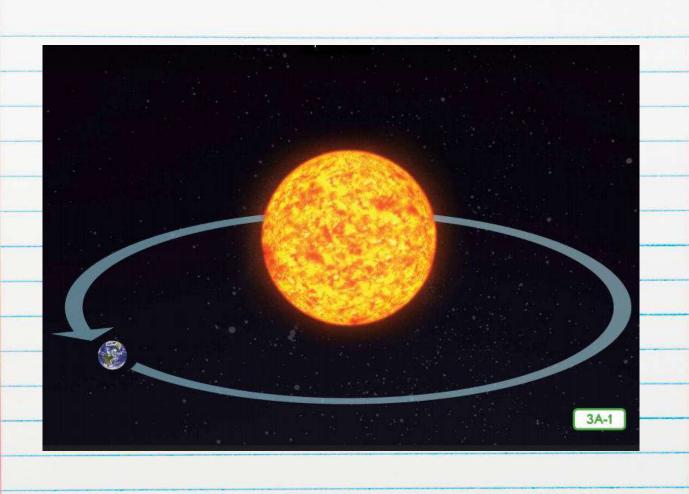
 photosynthesis- when plants use sunlight to turn water and air into food

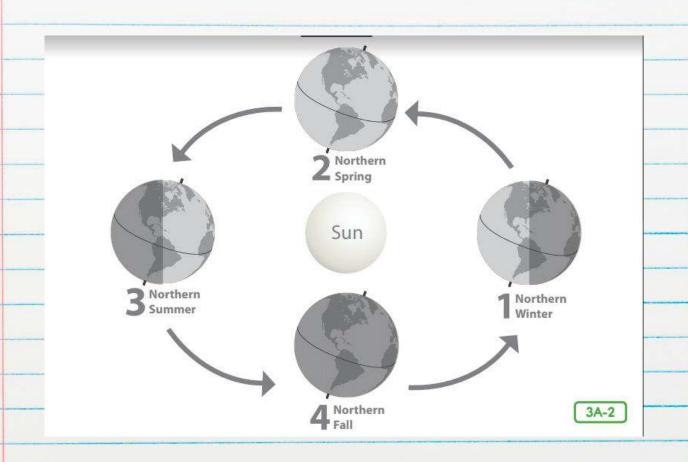


Cycles in Nature

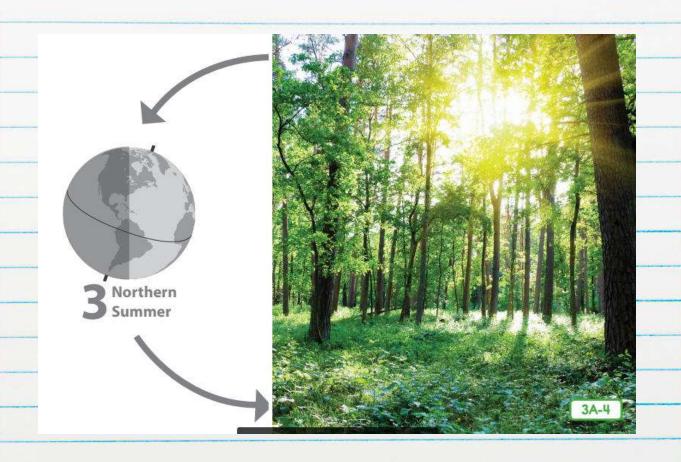
Lesson 3

<u>Video</u>

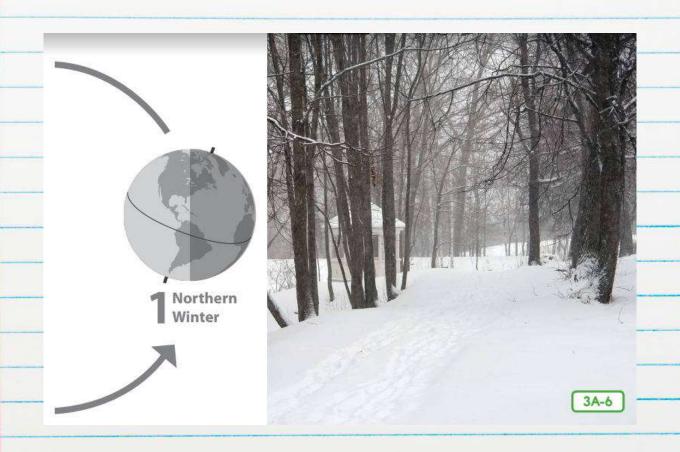
















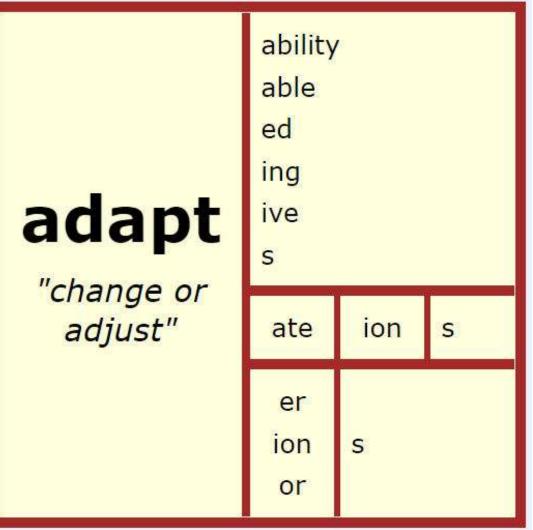
COMPREHENSION QUESTIONS

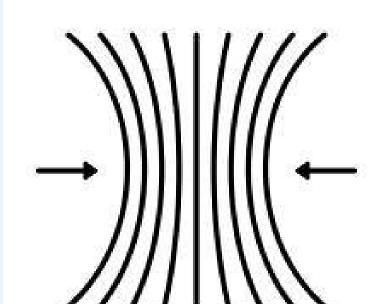
- What is the main topic of today's read aloud?
- What causes the yearly seasons on earth?
- If it is summer in the Northern Hemisphere, what season is it in the Southern Hemisphere?

- How do the seasons affect plants?
 - Why do plants grow more rapidly during the summertime than during other seasons?
- Why do some trees shed their leaves?
- How do the seasons affect animals?

COMPREHENSION QUESTIONS

- Why do some animals migrate south in the fall and return north in the spring?
 - In which season do most animals give birth to their young?
- In which season are many crops harvested?





How do people **adapt** to winter and summer?

Foxes have learned to **adapt** to a suburban (city) environment.

What does **adapt** mean?

Can you think of other things in nature that adapt?

BRAINPOP JR.

Spring Video
https://jr.brainpop.com/science/weather/spring/

Summer Video
https://jr.brainpop.com/science/weather/summer/

Fall Video
https://jr.brainpop.com/science/weather/fall/

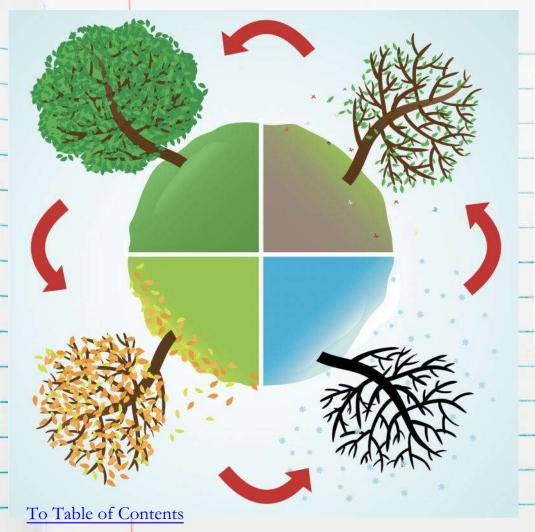
Winter Video
https://jr.brainpop.com/science/weather/winter/

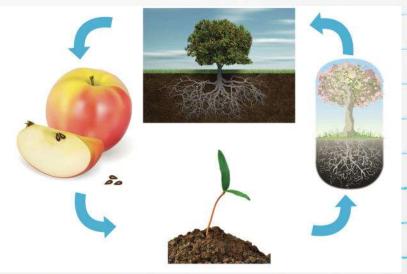
COMPOUND WORDS

Two words can be added together to form a new word.

Bedtime= bed+time (time to go to bed)
Notebook= note+book (a book in which you write notes)
Bathroom= bath+room (a room where you take a bath)







Northern Seasons Chart						
	Spring	Summer	Autumn/Fall	Winter		
Date Season Begins	Spring equinox; a round March 21	Summer solstice; around Sept. 21	Autumn equinox; around Sept. 21	Winter solstice; around Dec. 21		
Amount of Sunshine	Roughly the same number of daylight and dark hours	More daylight hours than dark hours; it stays light out later	Roughly the same number of daylight and dark hours	Fewer daylight hours than dark hours; it gets dark earlier		
Temperature	Warmer	Hotter	Cooler	Colder		
Plants						
Animals						
Activities/Clothing						

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Temperature	Warmer	Hotter	Cooler	Colder		
Plants	Trees grow new leaves; flowers start to bloom; crops are planted	Plants and crops grow as they absorb more sunlight	Leaves change color and begin to fall; farmers harvest crops	Leaves have fallen from deciduous trees; many plants die		
Animals	Birds return and animals wake up; many animals have babies	Animals raise their babies	Many birds migrate; many animals prepare for winter by collecting food	Many animals hibernate or migrate; there are not as many birds		
Activities/Clothing	Starting a garden; flying kites	More time outdoors; lighter clothing; swimming; picnics	Back to school; harvesting crops	More time indoors; heavier clothing; ice skating; skiing		

LESSON 4 **Video** THE IFF CYCLE OF A

LESSON OBJECTIVES

Students will:

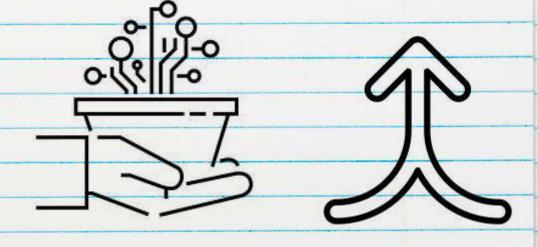
- Explain that a cycle is a sequence of events that repeats itself again and again
- Describe the seasonal cycle: spring, summer, autumn, winter
- Explain effects of seasonal changes on plants and animals
- Define the term life cycle
- Identify the stages of the life cycle of a flowering plant (seed to seed)



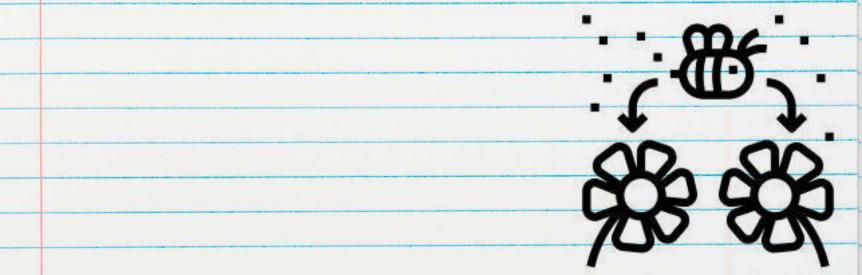
 attracted - made someone or something interested in someone or something else



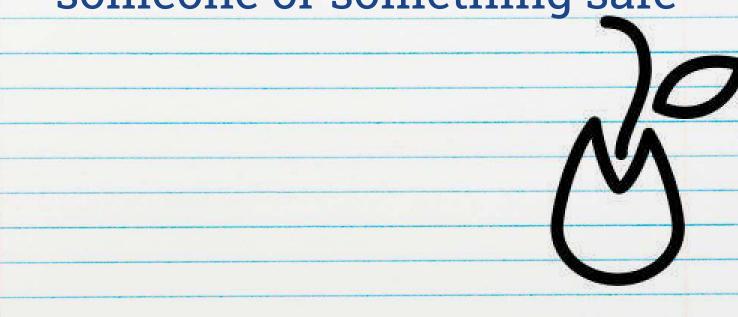
emerge- to come out into view;
 to become visible



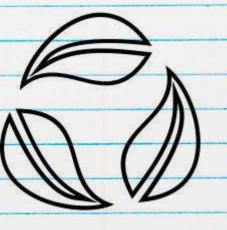
 pollinators- animals that carry pollen to and from plants



 protective- helpful at keeping someone or something safe



 reproduce- to make new animals or plants

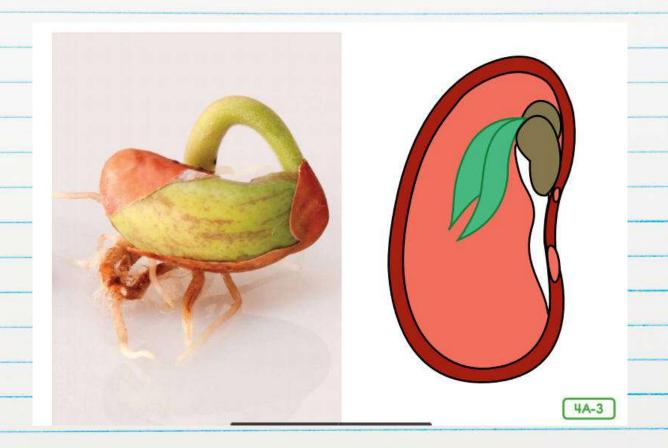


Cycles in Nature

Lesson 4
Video





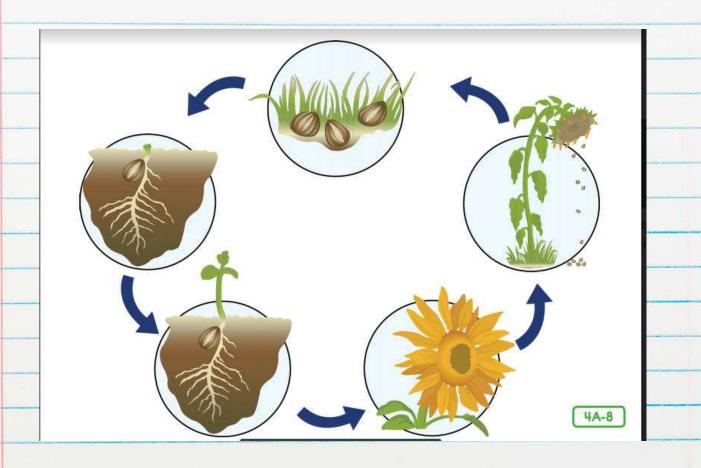


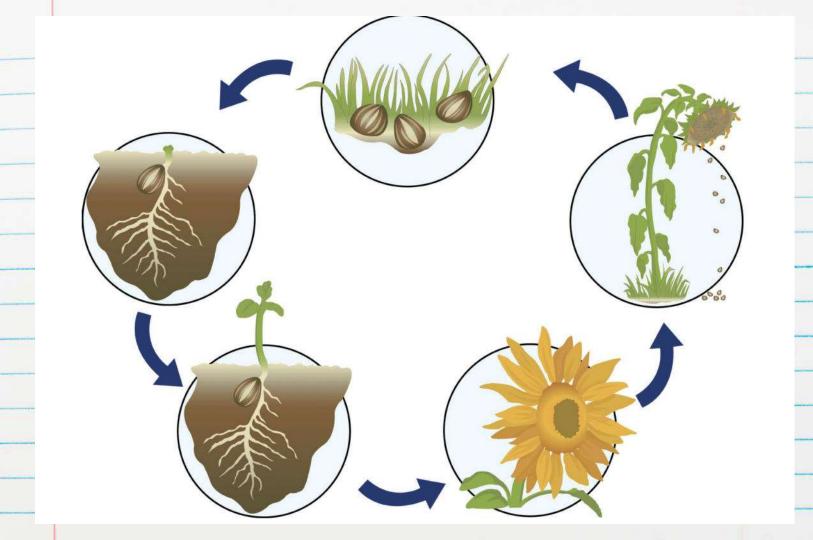


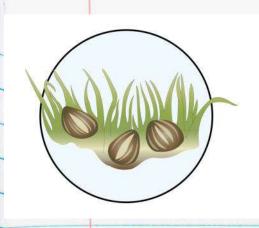




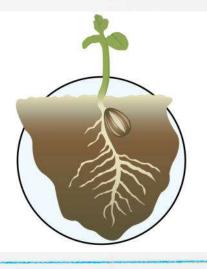




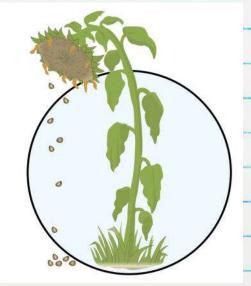












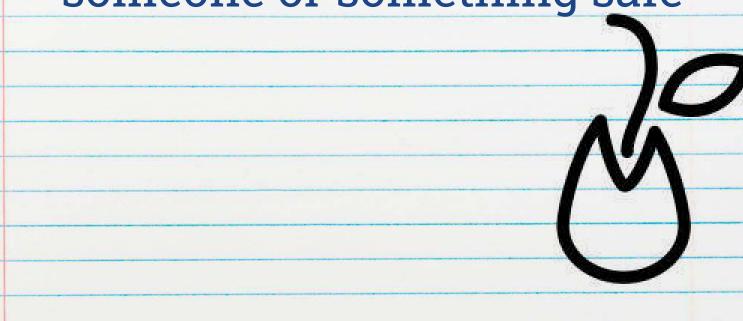
- What is the main topic of today's read aloud?
 - Which one of the four seasons is the best time for planting seeds? Why?
- What is pollination?
- Why is pollination important in the life cycle of a plant?
 - How does pollination happen?

COMPREHENSION QUESTIONS

- How do flowering plants attract pollinators?
 - What is seed dispersal and why is it important to the life cycle of a plant?
 - Name three kinds of seed dispersal, or ways seeds are spread in different directions.
 - What might happen if there were no more honeybees to pollinate flower?

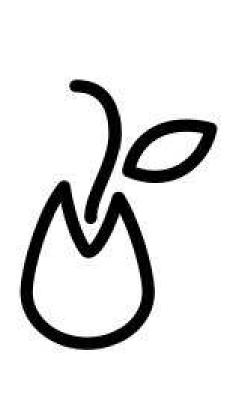
"Some seeds contained within a protective casing can attach themselves to the fur of passing animals."

 protective- helpful at keeping someone or something safe



over un "cover, shelte shield"	
--------------------------------	--

ed ing s		
ion	ism s	
	ist	S
ive	ly ness	
	ate	S
or	S	



What does **protective** mean?

An umbrella is a **protective** cover or shelter from the rain.

Can you think of other items that are designed to be **protective** or provide a means of protection?



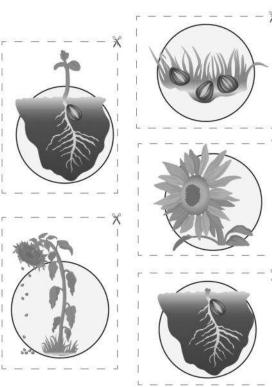
Is this action something we would describe as **protective**? Yes or No?

- Using bug spray to keep mosquitoes away
 Wearing a helmet when you ride your bike
- 3. Eating pizza
- 4. Using an umbrella when it rains
- 5. Climbing a tree
- 6. Wearing shin pads when you play soccer



NAME: __



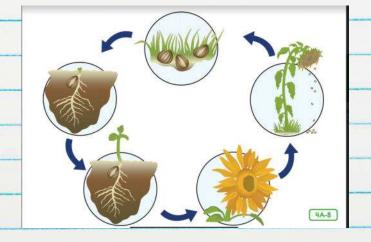


Controlledo

QUICK WRITE

Describe the life cycle of a plant using the following sequence words: First, Next, Then,

Last



Plant Life Cycle Video https://jr.brainpop.com/science/plants/plantlifecycle/

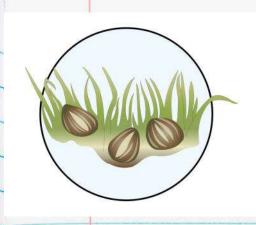
LESSON 5 Video HF LIFF CYCLE OF A

REF

LESSON OBJECTIVES

Students will:

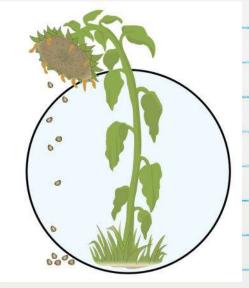
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- Define the term life cycle
- Identify the stages of the life cycle of a tree (seed to seed)



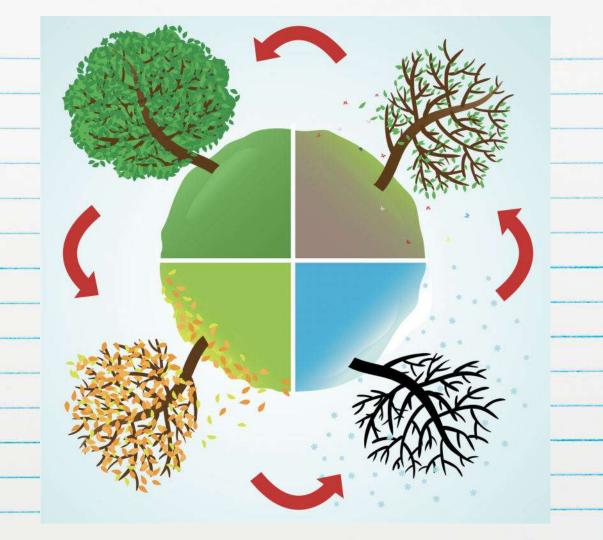




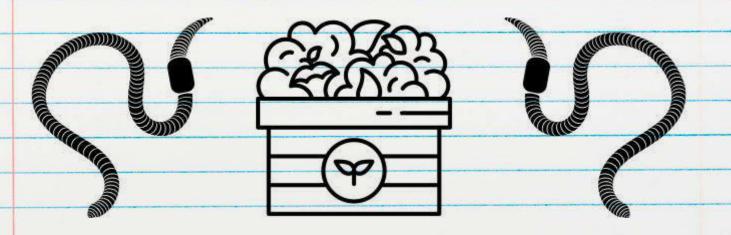




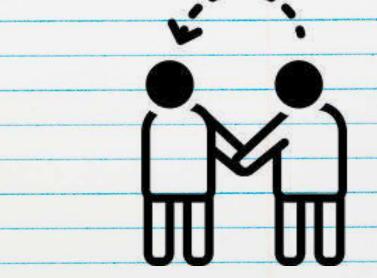
		Northern Seasons Char	t	
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Plants	Trees grow new leaves; flowers start to bloom; crops are planted	Plants and crops grow as they absorb more sunlight	Leaves change color and begin to fall; farmers harvest crops	Leaves have fallen from deciduous trees; many plants die
Animals	Birds return and animals wake up; many animals have babies	Animals raise their babies	Many birds migrate; many animals prepare for winter by collecting food	Many animals hibernate or migrate; there are not as many birds
Activities/Clothing	Starting a garden; flying kites	More time outdoors; lighter clothing; swimming; picnics	Back to school; harvesting crops	More time indoors; heavier clothing; ice skating; skiing



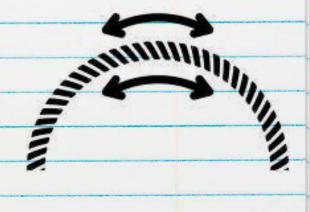
 decomposers - living things that help break down dead matter



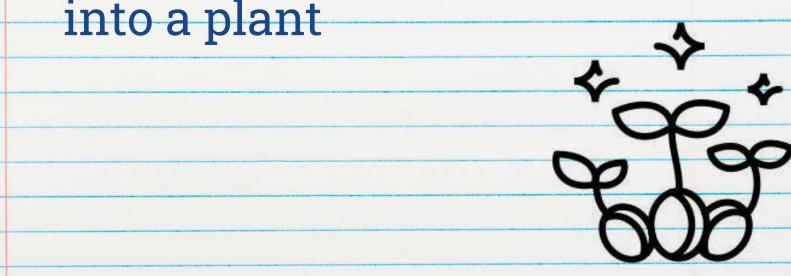
 dependent- requiring support or help



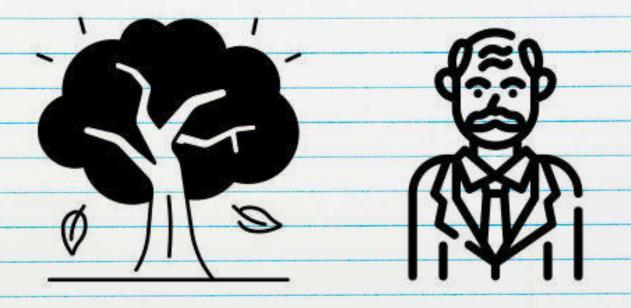
flexible- able to bend and move easily



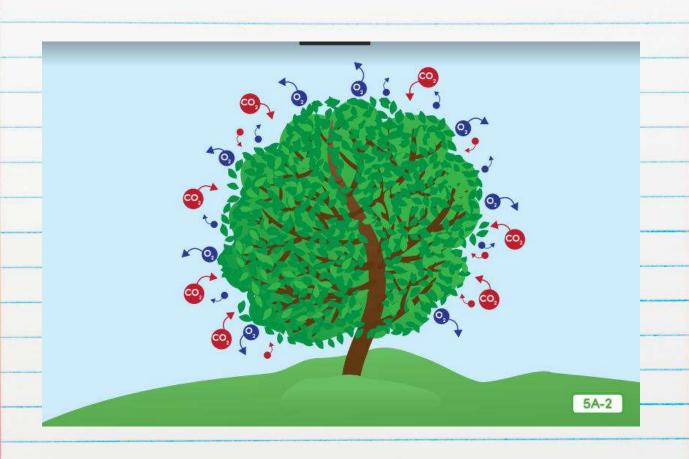
germination- the process in which a seed begins to grow into a plant

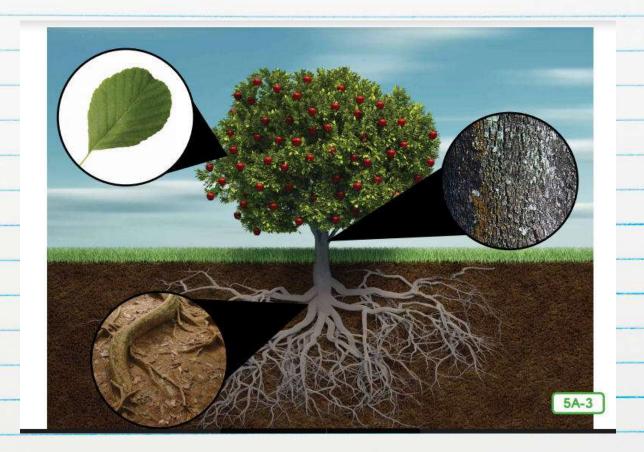


mature- fully grown



Cycles in Nature Lesson 5 Video







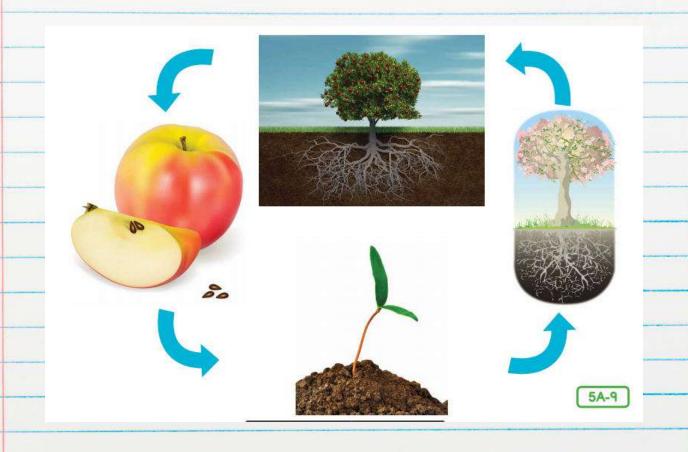


5A-5



5A-6





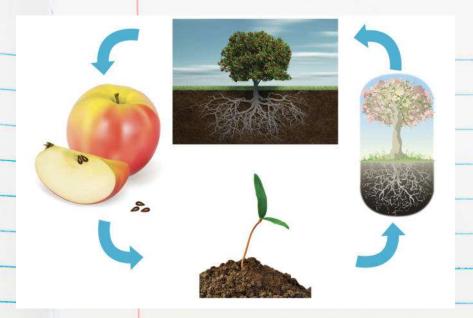
To Table of Contents

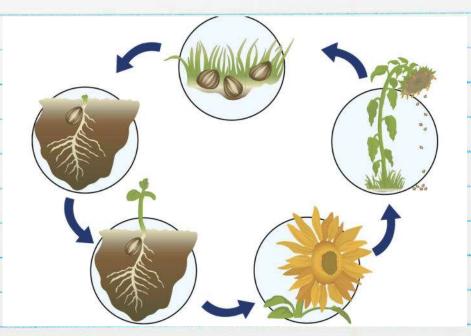
COMPREHENSION QUESTIONS

- What is the main topic of today's read aloud?
- Why are trees important to life on earth?
- What is the difference between deciduous trees and evergreen trees?
 - Would it be easier for you to observe the complete life cycle of a sunflower plant or a tree?

- What is the difference between deciduous trees and evergreen trees?
 - What are the different ways that seeds are dispersed or spread apart that helps ensure that a tree's life cycle repeats every year?

Would it be easier for you to observe the complete life cycle of a sunflower plant or a tree? Why?





\$ \$ \$ \$ \$ \$	ij	cide	s	
wheat	germ "bud, sprout"	in	ate	ed ing ion s
		S		

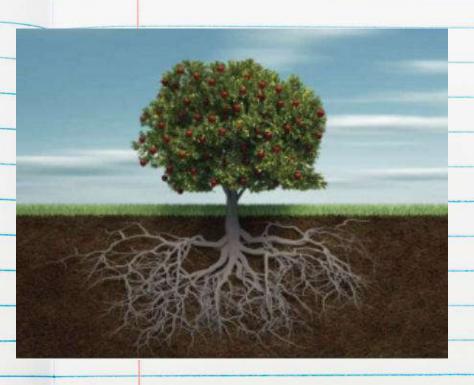
What does **germination** mean?

Have you ever watched a seed germinate? What happened to the seed? Did it change or grow new parts?

Choose the correct answer about **germination**.

- 1. Does **germination** happen to the seed or to the adult plant in the life cycle of a flowering plant?
- 2. Does seed **germination** happen in the spring or in the winter?
- 3. Are water and sunlight, or rocks and grass, necessary to the **germination** process?

Tree Life Cycle Video
https://jr.brainpop.com/science/plants/trees/

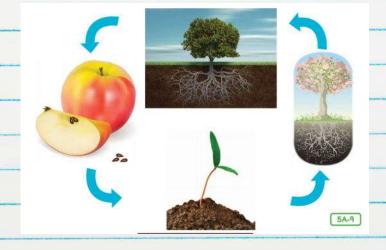


DATE:		Activity Page	
l have many parts like			
When I am young			
	_		
When I get a little bit older			
When I am mature	_	Mad 4 0 2	
	_	9 ag	
5////		wled	

QUICK WRITE

Describe the life cycle of a tree using the following sequence words: First, Next, Then,

Last



PAUSING POINT

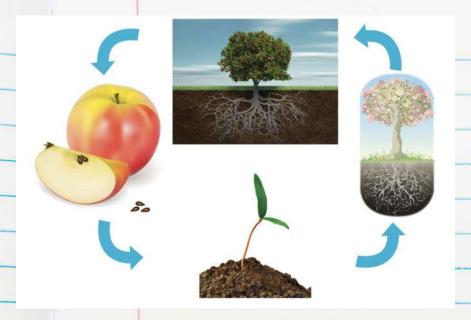
Riddles Slideshow by Stephanie Walley

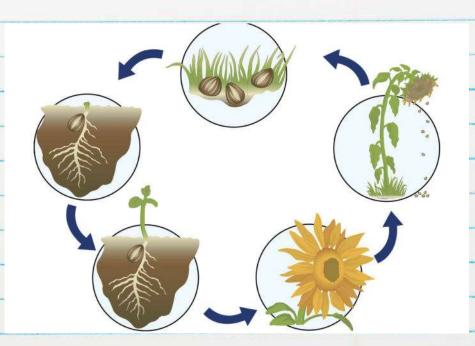
LESSON 6 WHICH CAMEFIRST, THE CHICKEN OR THE EGG! THE CHICKEN LIFE CYCLE

LESSON OBJECTIVES

Students will:

- Explain that a cycle is a sequence of events that repeats itself again and again
- Describe the seasonal cycle: spring, summer, autumn, winter
- Explain effects of seasonal changes on plants and animals
- Define the term life cycle
- Identify the stages of the life cycle of a chicken (egg to egg)





 albumen - the clear or white part inside an egg that surrounds the yolk



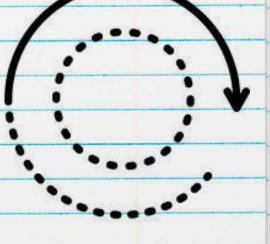
 embryo- an unborn or unhatched animal early in its development



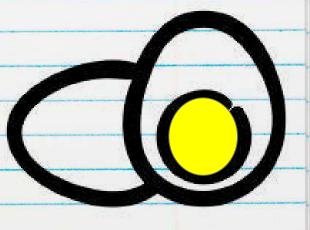
 fertilize- to make an egg able to grow and develop into a baby



replenished- replaced or refilled

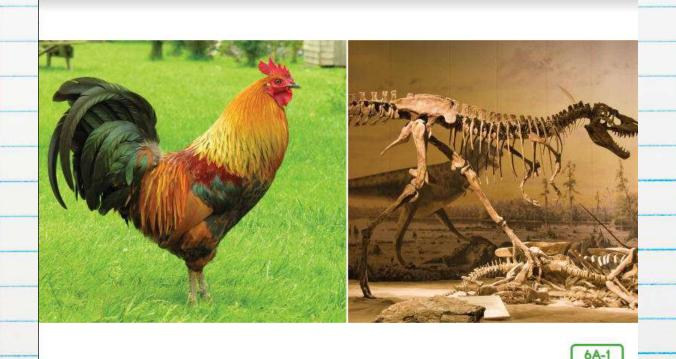


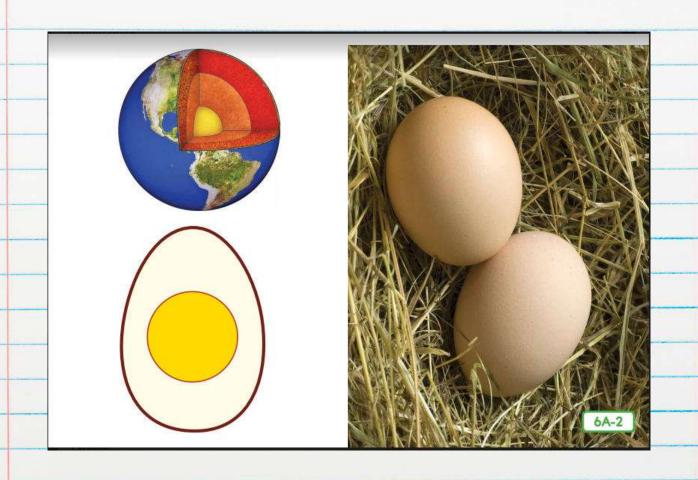
 yolk- the yellow, internal part of an egg



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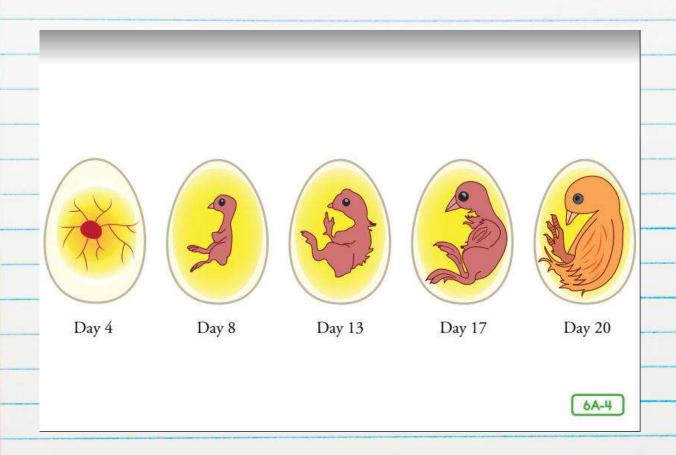
Cycles in Nature Lesson 6 Video

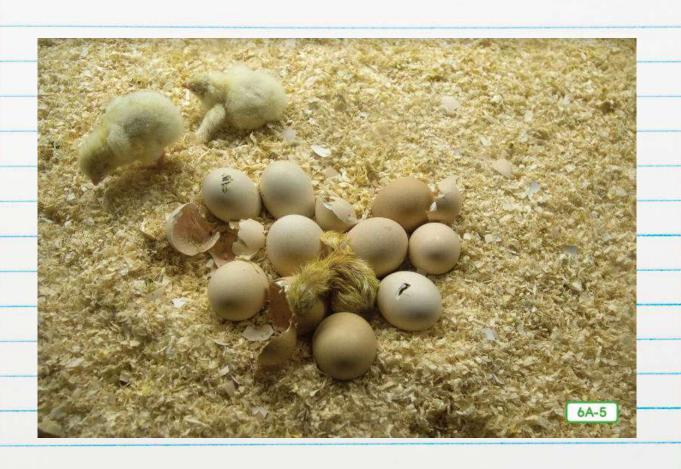


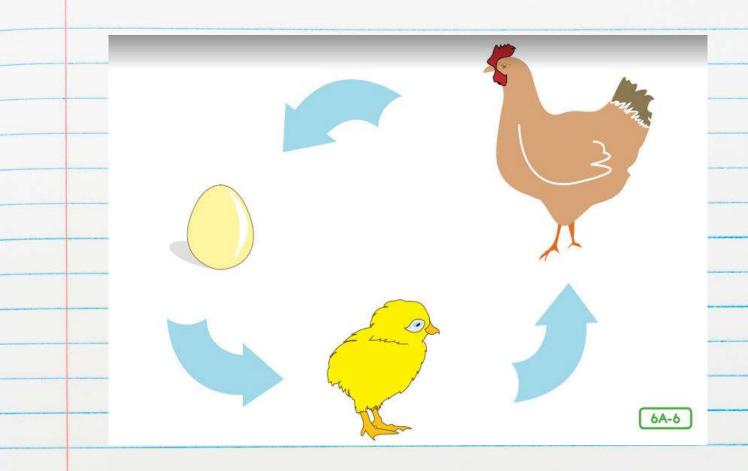




6A-3







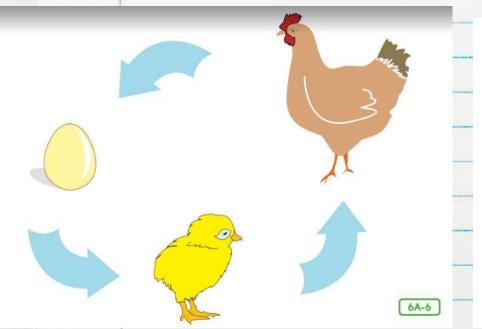
COMPREHENSION QUESTIONS

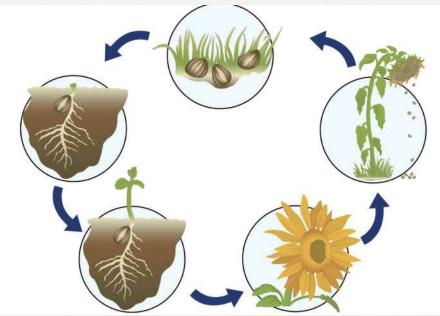
- Were your predictions correct about whether the chicken or the egg comes first?
- What is the main topic of today's read aloud?
 - How does the life cycle of a chicken begin?
- What three parts make up an egg?
- Do all eggs develop into baby chicks or go through a complete life cycle?

COMPREHENSION QUESTIONS

- How does the mother hen help her chicks grow inside the eggs?
 - What does a growing chick use for food before it hatches?
- What does a baby chick do to break out of its shell when it hatches?
- What are the three stages of the life cycle of a chicken?

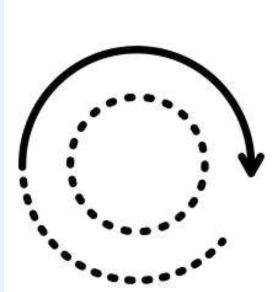
How is the life cycle of a chick similar to the life cycle of a flowering plant? How is it different?





"This supply of oxygen is replenished, or replaced, as oxygen passes through the shell of the egg." replenished- replaced or refilled

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		i	potent	i	ary	S	
a re		ish	ed es ing ment		1		
		itude teous					
		ty	ful	ly			



Can you think of items that need to be replenished?

What does **replenished** mean?

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Does this describe something that can be replenished?

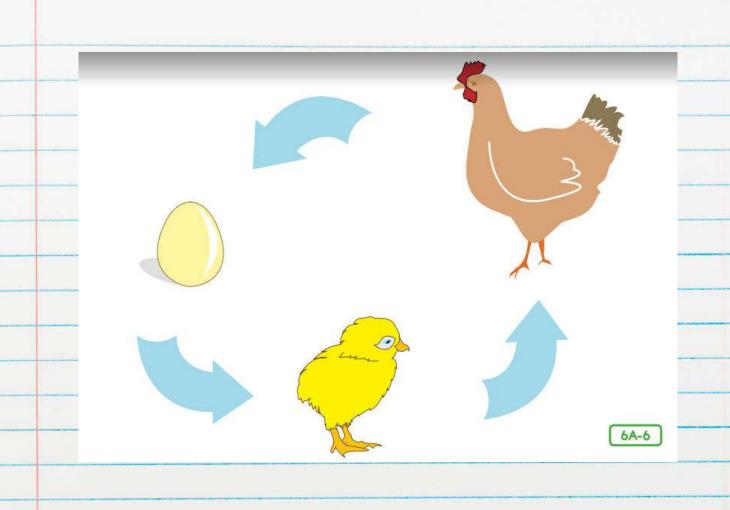
- 1. An almost empty glass of water
- 2. An almost empty gas tank
 3. Spacks for school
- 3. Snacks for school4. A bubble when it has burst
- 5. The flavor in a piece of gum after you have chewed it

CRACKING AN EGG Video

Chicken Life Cycle Video
https://www.youtube.com/watch?v=PedajVADLGw







TAKE-HOME

NAME:	 6.1	Take-Ho
DATE:		

Dear Family Member,

During the next several days, your child will learn about cycles and explore some of the different types of cycles that occur in nature. Your child will be introduced to the reasons we have four seasons on planet Earth, and to the different seasonal changes that affect the life cycles of plants and trees. Below are some suggestions for activities that you may do at home to reinforce what your child is learning about cycles in nature,

1. Personal Connections

Share with your child your favorite season and the different experiences from your own childhood connected with seasonal changes. Emphasize the changes observed in plants and animals. Ask your child what favorite memories s/he has of a particular season shared with you and your family.

2. Draw and Write

Have your child draw and/or write what s/he has learned about seasonal cycles and the life cycles of plants. Ask questions to help your child use the vocabulary learned at school.

3. Words to Use

Below is a list of some of the words that your child will be learning about and using. Try to use these words as they come up in everyday speech with your child.

- · revolve-It takes one year for Earth to revolve around the sun.
- hibernation—Some animals have longer periods of winter hibernation than others.
- cycles—Planet Earth has many cycles, such as day and night, the seasons, and life cycles of plants.

4. Read Aloud Each Day

Set aside time to read aloud to your child every day. The local library has many books on cycles in nature.

Be sure to let your child know how much you enjoy hearing about what s/he has been learning at school.

2000-200-2002

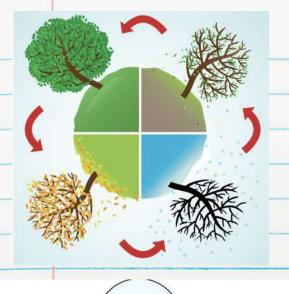
LESSON 7

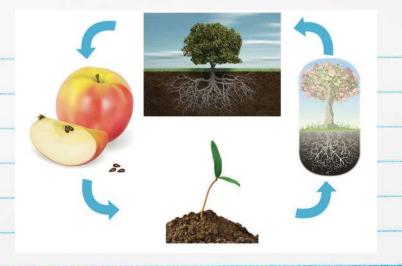
THE LIFE CYCLE OF A FROG Video

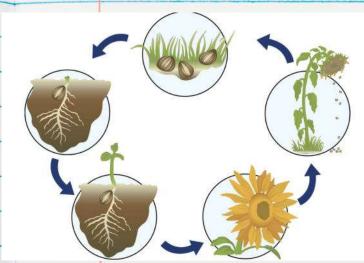
LESSON OBJECTIVES

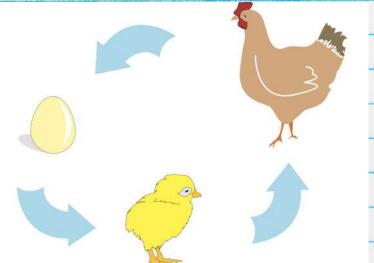
Students will:

- Explain that a cycle is a sequence of events that repeats itself again and again
- Describe the seasonal cycle: spring, summer, autumn, winter
 Explain effects of seasonal changes on plants at
 - Explain effects of seasonal changes on plants and animals
- Define the term life cycle
- Identify the stages of the life cycle of a frog (egg to egg)
 - Explain metamorphosis

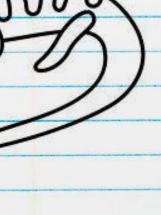




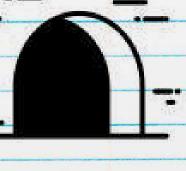




amphibian - an animal that can live on both land and water



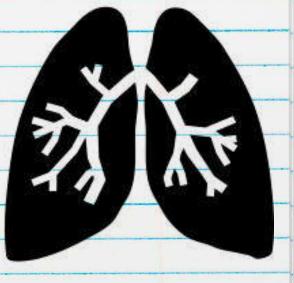
burrow- to make a hole or passage into or under something



 gills- the body parts some aquatic animals use to breathe underwater



 lungs- a pair of organs used to breathe



metamorphosis- the process by which some young animals change form as they become adults



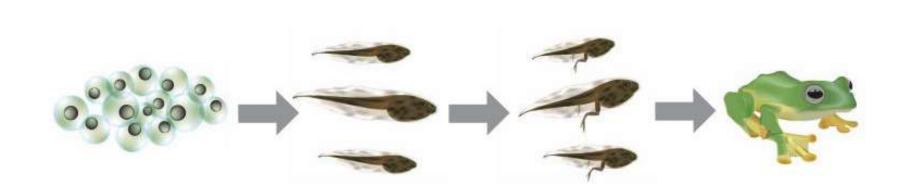
Cycles in Nature Lesson 7

<u>Video</u>





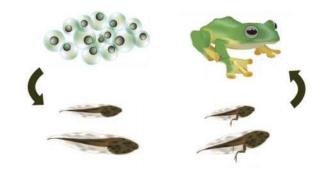


















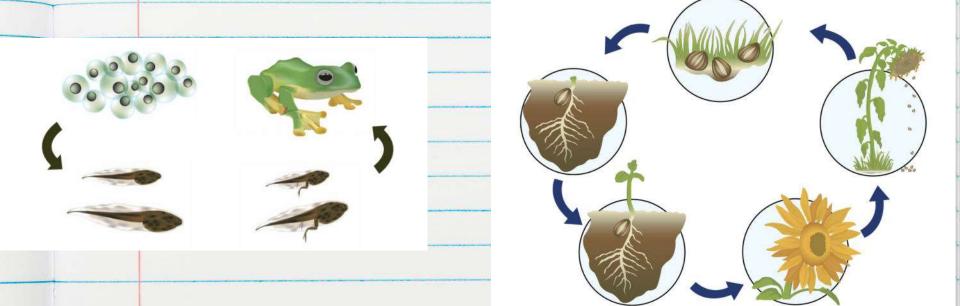
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- What is the main topic of today's read aloud?
- What is the first stage of a frog's life cycle?
- What hatches from the egg?
- How do tadpoles breathe underwater?
- How do tadpoles prepare for the cold of winter?
- When is a tadpole finally a young frog?

COMPREHENSION QUESTIONS

- What is it called when a living thing undergoes a huge change in shape and appearance, like the frog does from tadpole to adult frog?
- In which season do adult female frogs lay their eggs so that the life cycle can begin again?
- What are the stages of the frog's life cycle?

How are the frog's life cycle and a plant's life cycle alike? How are they different?



- "In the winter, many frogs hibernate. Often they burrow, or dig a hole in mud at the bottom of ponds." burrow- to make a hole or .
 - passage into or under something

burrow

"make a hole"

ed ing s



What does **burrow** mean?

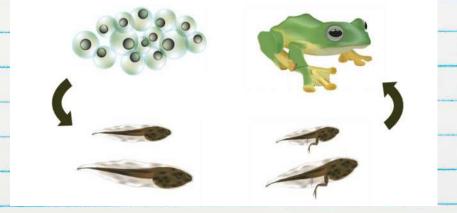
Some animals use their front legs to push dirt aside so they can **burrow** deeper into the ground.

Has there ever been a time when you tried to burrow into something?



Frog Life Cycle Video
https://jr.brainpop.com/science/animals/frogs/

Using sequence words, list the steps in the life cycle of a frog.



	NAM		7.1 Activity Page	200
		Introductory Sentence:		
	sentence in th angle to concli	,		
	one complete in the last recto	First		
	aragraph, Write plete senfence	Next		
	traduce your p Write one com			
	Directions: Write one complete sentence in the first rectangle to introduce your paragraph. Write one complete sentence in the next four rectangles to explain the stages of the life cycle of a frog. Write one complete sentence in the last rectangle to conclude, or finish, your paragraph.	Then		
	itence in the firs stages of the life	Finally		
	e complete ser s to explain the graph.			
	tions: Write or four rectangles rish, your parag	Concluding Sentence:	99	
		6 Cycles in Nature	Kitowledg	
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LESSON 8

Video

THE LIFE CYCLE OF A BUTTERFIY

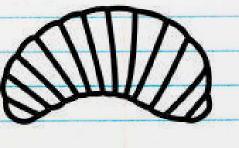
LESSON OBJECTIVES

Students will:

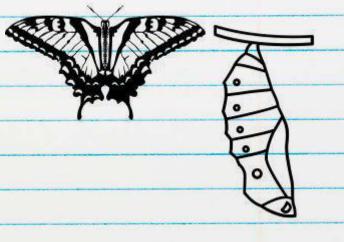
- Explain that a cycle is a sequence of events that repeats itself again and again
- Describe the seasonal cycle: spring, summer, autumn, winter
 Explain effects of seasonal changes on plants and
 - Explain effects of seasonal changes on plants and animals
- Define the term life cycle
- Identify the stages of the life cycle of a butterfly (egg to egg)
- Explain metamorphosis

SEQUENCE CARDS (IMAGE CARDS 10-16)

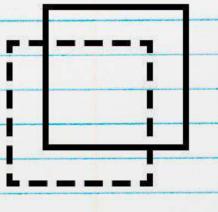
larva - the early form of an insect that is not completely developed



molt- to shed an outer layer



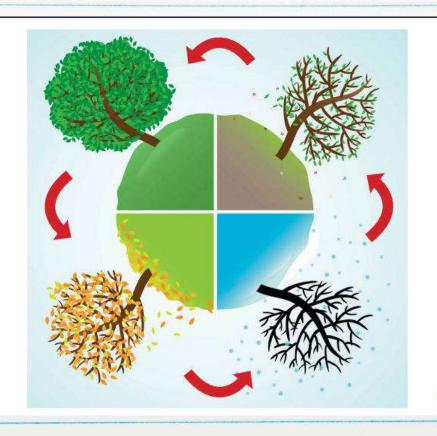
 transparent- clear; able to see through



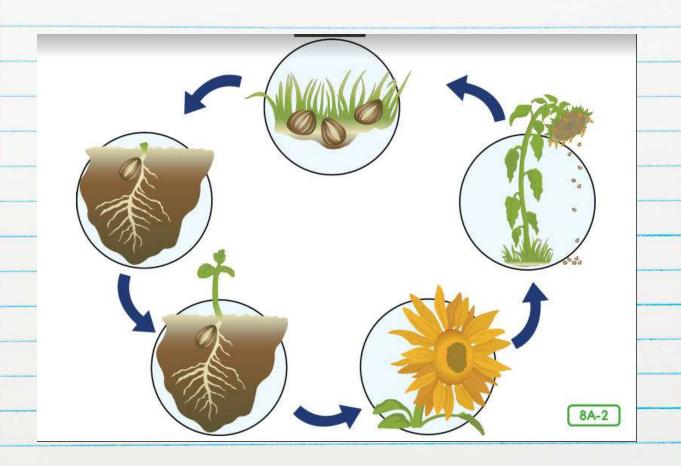
Cycles in Nature

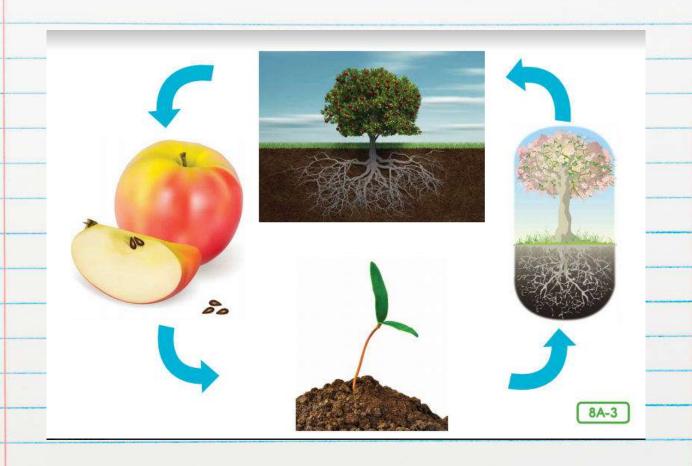
Lesson 8

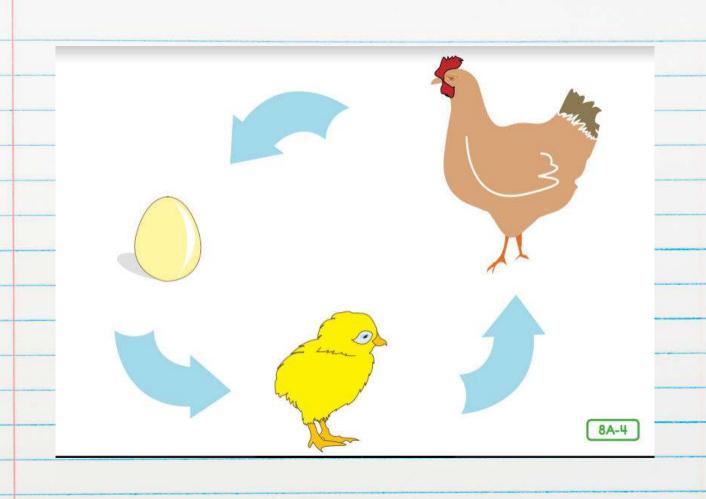
<u>Video</u>

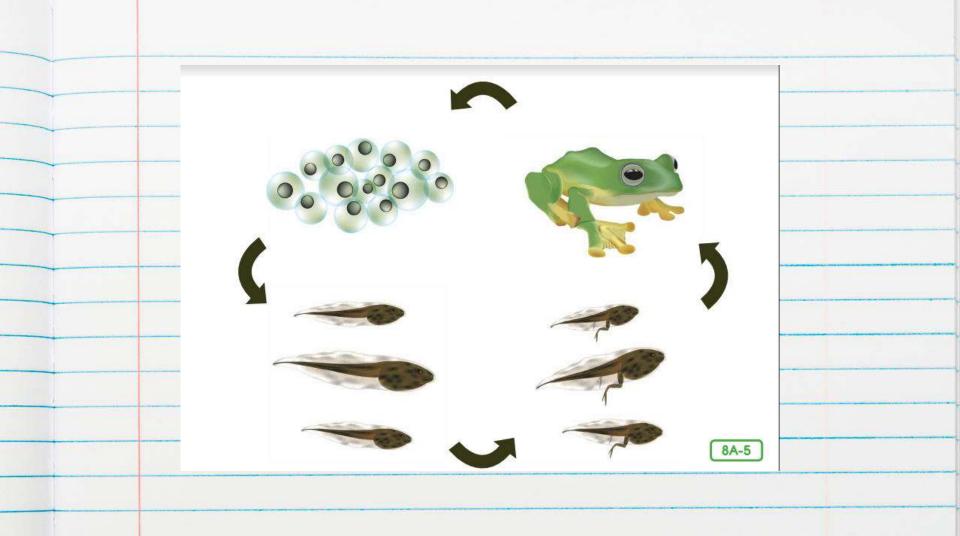


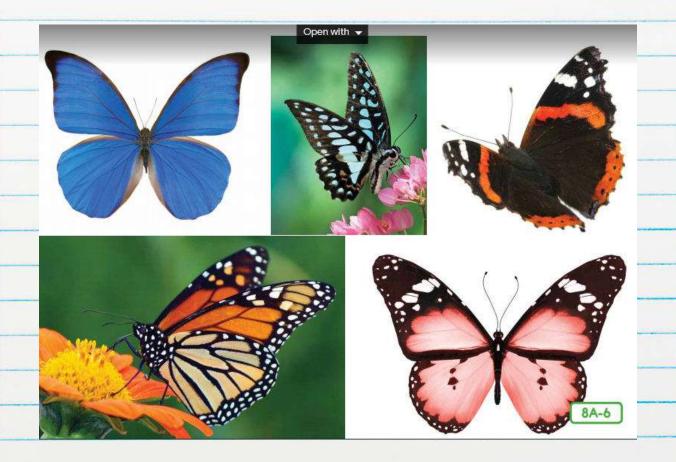
8A-1





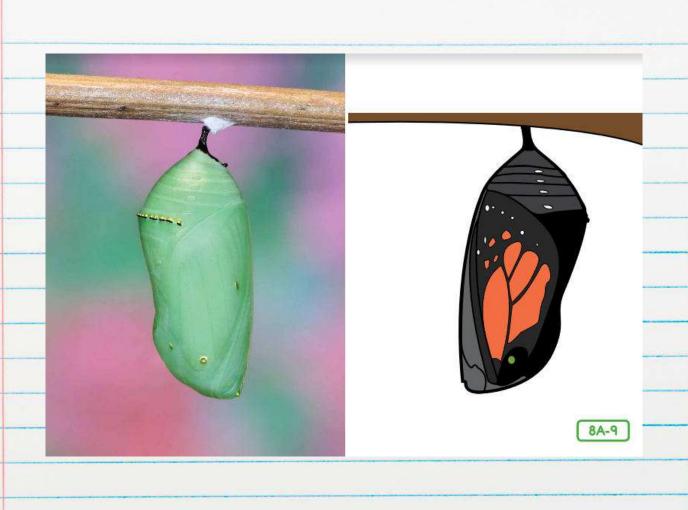


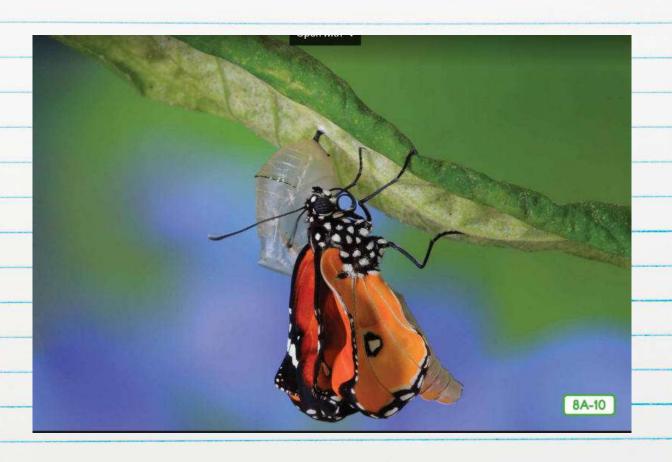


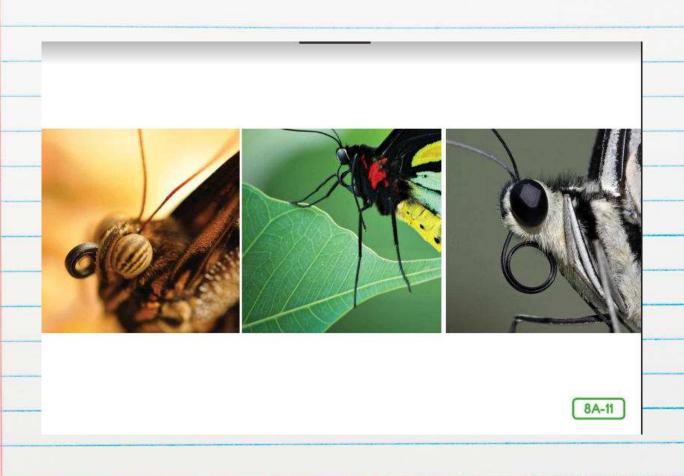




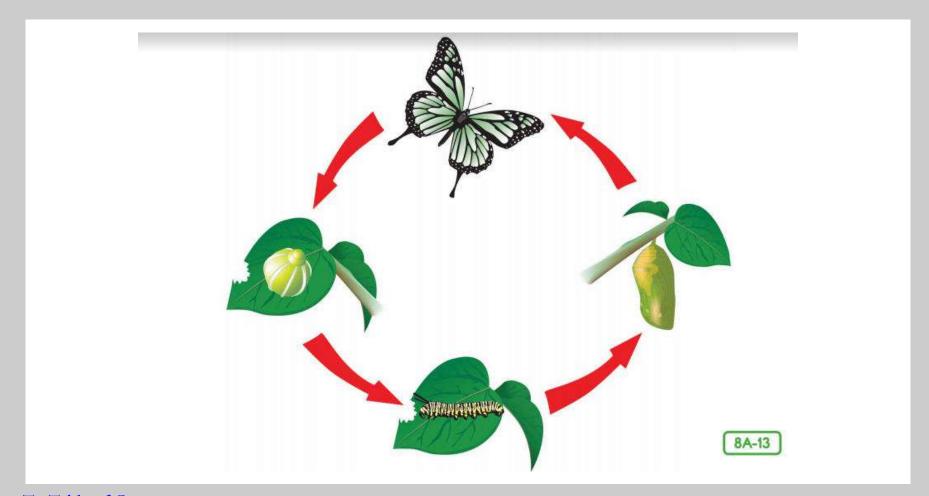










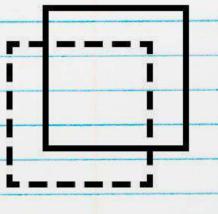


- What is the main topic of today's read aloud?
- How does a butterfly begin it's life?
- What hatches out of the egg?
- Caterpillars grow so quickly that they outgrow their skin. What does a caterpillar do with the skin it outgrows?
 - What is the next stage called when the caterpillar forms a protective case?

- What comes out of the chrysalis or pupa?
- What are the four stages in the life cycle of a butterfly?
- After metamorphosis, does the adult look like it did when it was younger?
- Why do some butterflies migrate?

The life cycle of a plant could be described as going from seed to seed, and the life cycles of a frog and chicken, from egg to egg. How would you describe the life cycle of a butterfly?

 transparent- clear; able to see through



transparent

"see through";

ly

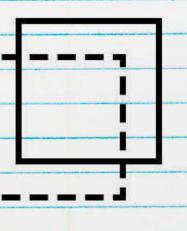
What does transparent mean?

Mike's water bottle is **transparent**, so he is able to see how much water is in it.

What are things you have seen that are transparent?

Does this describe something that can be transparent?

- 1. A window
- 2. A brown paper bag
- 3. An aquarium
- 4. A book
- 5. The lenses in someone's glasses
- 6. Clear plastic wrap

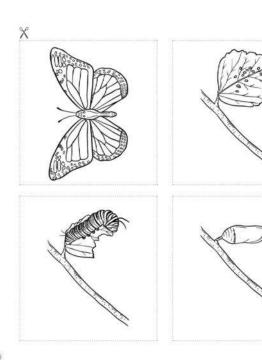


Butterfly Life Cycle Video https://jr.brainpop.com/science/animals/butterflies/

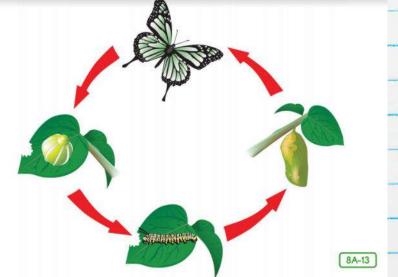
Directions: Color and cut out the pictures showing the different stages of metamorphosis for a monarch butterfly, and then sequence them in the correct order. Glue or tape the pictures onto drawing paper. Work with a partner to retell the stages of metamorphosis.

NAME:

DATE:



Using sequence words, list the steps in the life cycle of a butterfly.



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LESSON 9 THE WATER CYCLE **Video**

LESSON OBJECTIVES

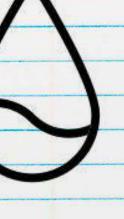
Students will:

- Explain that a cycle is a sequence of events that repeats itself again and again
- Define the term water cycle
 - Explain that there is a limited amount of water on Earth
- Describe evaporation and condensation
- Identify forms and importance of precipitation
- Describe the formation of clouds
- Identify three types of clouds: cirrus, cumulus, and stratus

 condensation- the process by which a gas changes into a liquid



 humidity- the amount of moisture or water vapor in the air



 precipitation- water that falls from the sky as rain, snow, sleet, or hail



Cycles in Nature Lesson 9

Video



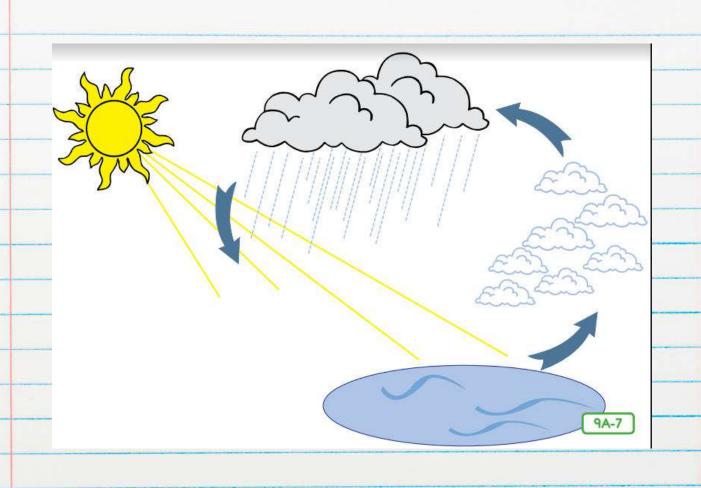






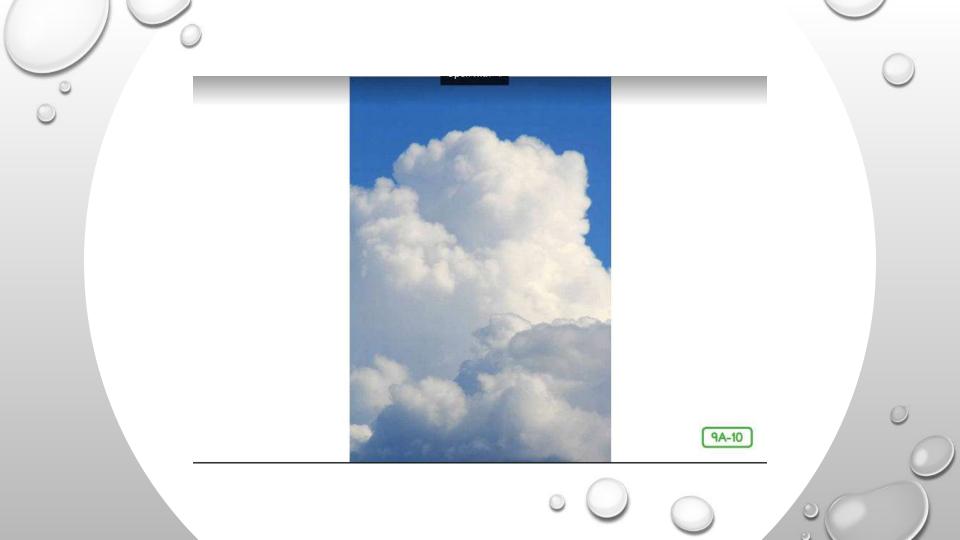














- What is the main topic of today's read aloud?
- Is the Earth covered mostly by land or by water?
- What do we call the process when water from oceans, rivers, and puddles changes to a gas and moves into the air?
- What causes evaporation? Can we usually see evaporation or water vapor?

- What do we call the process when water vapor turns back into a liquid or water droplets because of cooling?
- Water can be a solid, a liquid, or a gas. What do we call water when it is a gas?
- Why are the processes of evaporation,
 condensation, and precipitation considered a cycle? What is the name of this cycle?
- How do clouds fit into the water cycle?

 When clouds get heavy with water as condensation, what do we call water that then falls from the sky as rain, snow, sleet, or hail?

types are solids?
 Where does **precipitation** go after its falls from the

Which type of **precipitation** is a liquid? Which

- clouds?
- Does the earth make new water, or does the same water go through the water cycle again and again?

Why is precipitation important?

To Table of Contents

- "When water droplets fall to the ground, regardless of what they look like, it is called precipitation."
 - precipitation- water that falls from the sky as rain, snow, sleet, or hail



precipitate

"rain, hasty, throw



ed ing ly

n s

The farmer had to water his garden because there

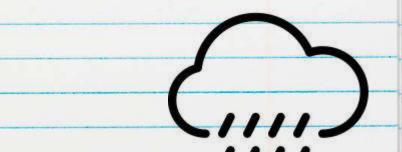
What is **precipitation**?

had been no **precipitation** for a month.

What is your favorite kind of **precipitation**? Your least favorite?

Which of these is a type of **precipitation**?

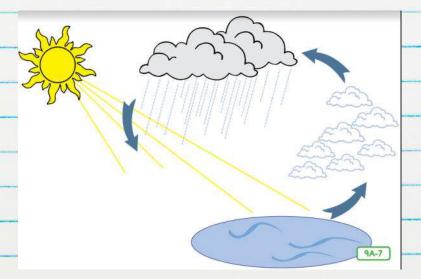
- Clouds or rain
 Sleet or water vapor
- 3. Snow or humidity
- 4. An ocean or hail



Water Cycle Video
https://jr.brainpop.com/science/weather/watercycle/

GoNoodle Video
https://family.gonoodle.com/activities/water-cycle

Using sequence words, list the steps in the water cycle.



CULMINATING ACTIVITIES

BrainPopJr. Videos

- Hibernation -https://jr.brainpop.com/science/animals/hibernation/
- Mammals https://jr.brainpop.com/science/animals/mammals/
- Natural Resources https://jr.brainpop.com/science/conservation/naturalresources/
- Plant Adaptations https://jr.brainpop.com/science/plants/plantadaptations/
- Soil https://jr.brainpop.com/science/land/soil/