
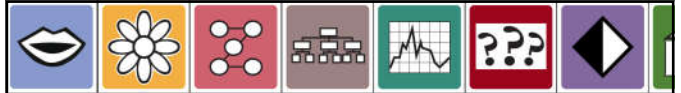



*the* Depth & Complexity *show*

with Ian Byrd & Lisa Van Gemert

*first part:* Intro to Depth & Complexity



**DEPTH & COMPLEXITY**

a **FRAMEWORK** for  
academic exploration  
to help raise thinking  
skills

Why it's so great

- differentiation made easy
- standards alignment
- all ages & content areas
- robust thinking toolbox

Components of Depth & Complexity Framework

- Thinking Skills
- Icons of DC
- Universal Concepts
- Content Imperatives
- Disciplinarianism

**DEPTH & COMPLEXITY**

the icons are a path to  
understanding the  
thinking lens we're using  
for that experience | it's  
the signal | ELL

**We are looking through a lens that pivots .**

**DEPTH & COMPLEXITY**  
**The eleven elements are not in any particular order.**

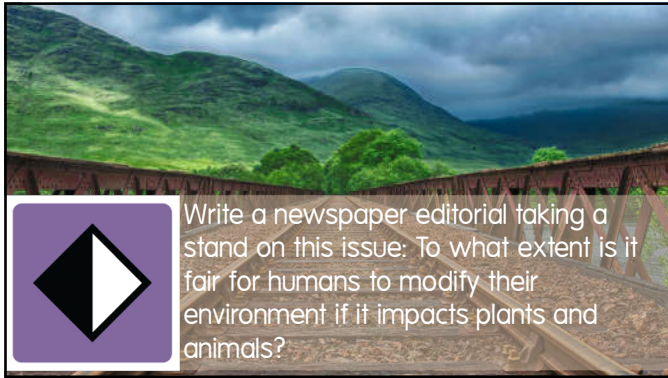
*second part:*  
 Our Pick Four



Should great art belong to private owners or public institutions? Is it fair for such beauty to be owned by one person? Cite a character for each position and, using examples from the text, defend their point of view.

Students will debate:

Resolved: It is fair for packs of animals to hunt in order to kill a solitary animal.

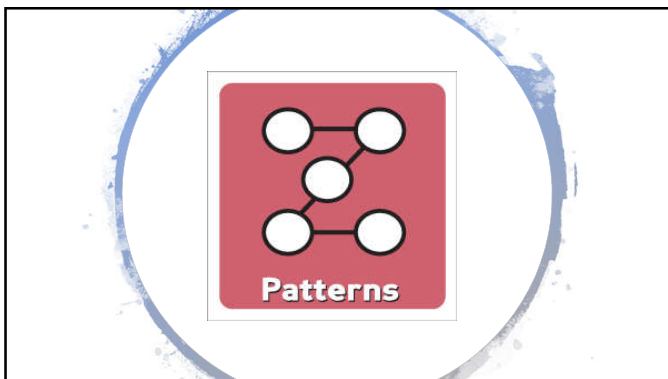


Write a newspaper editorial taking a stand on this issue: To what extent is it fair for humans to modify their environment if it impacts plants and animals?



















What are the problems you run into when doing long division?

Rank those problems in order from most important/common to least.

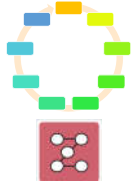
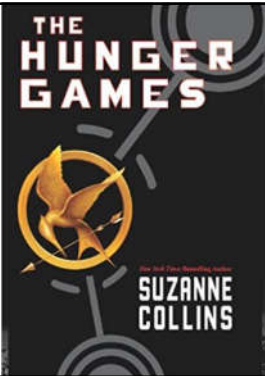
The most important/common issue in long division is \_\_\_\_\_ because it impacts \_\_\_\_\_ in this way \_\_\_\_\_.



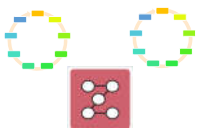
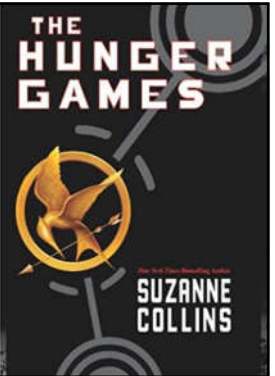
How does this pattern allow you to solve the problem?

Multiplication Arrays			
Directions: Circle the problem shown by the array.			
	$4 \times 5 = 20$		$5 \times 7 = 50$
	$6 \times 3 = 18$		$7 \times 7 = 49$
	$4 \times 6 = 24$		$5 \times 7 = 35$
	$5 \times 3 = 15$		$4 \times 5 = 20$
	$6 \times 5 = 30$		$5 \times 5 = 25$
	$4 \times 6 = 24$		$5 \times 5 = 25$
	$8 \times 2 = 16$		$4 \times 7 = 28$
	$9 \times 2 = 18$		$8 \times 4 = 32$
	$9 \times 2 = 18$		$4 \times 8 = 32$

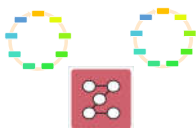
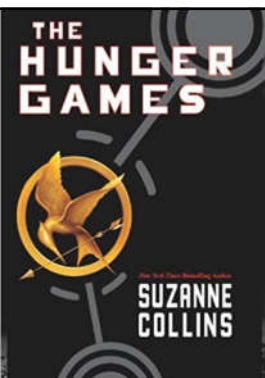
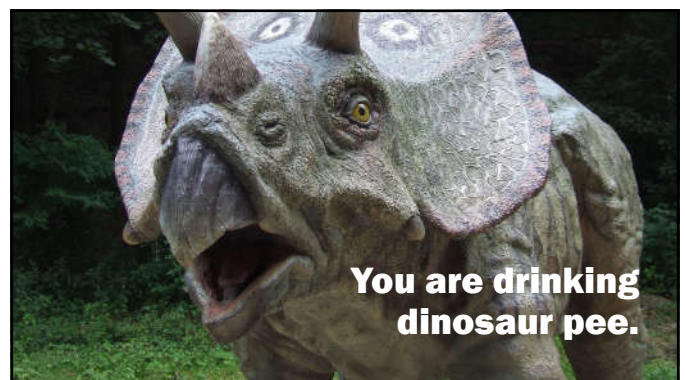
How does/does not Katniss follow the pattern of the heroic archetype?

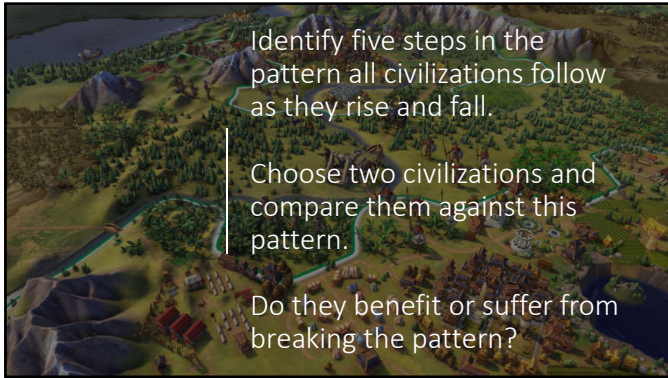
Differentiate It:  
Compare and contrast the heroic journey of Katniss with that of Theseus.

Where and how does Katniss break the heroic archetypal pattern? Why does Collins not follow the pattern exactly? Does this make Katniss more or less heroic?

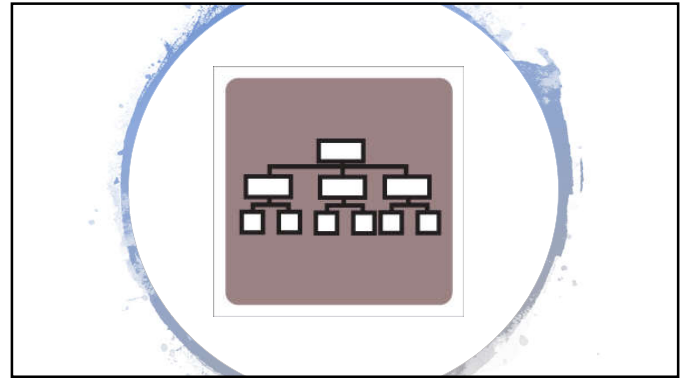




Identify five steps in the pattern all civilizations follow as they rise and fall.

Choose two civilizations and compare them against this pattern.

Do they benefit or suffer from breaking the pattern?




standards

directions

methods

organization

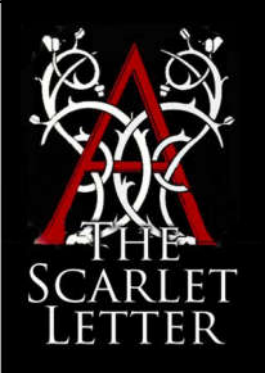
usual behavior

RULES INCLUDE:

In *The Scarlet Letter*, are the rules society imposes on women fair?

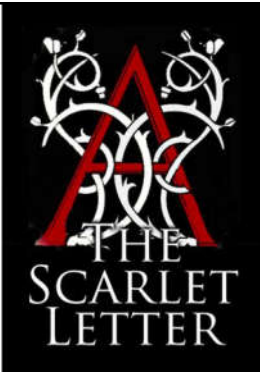
How does it punish the breaking of those rules?

Who else is punished besides the rulebreaker and how?



Differentiate it:

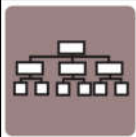
Compare the rules society imposes on women in *The Scarlet Letter* to contemporary mores. Argue either that a) the rules have changed or b) the punishments are more subtle.

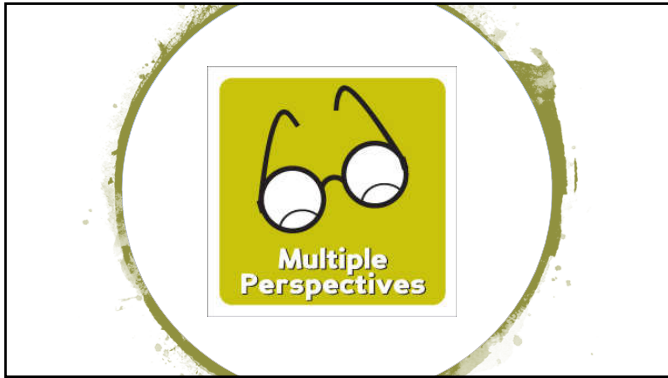


What rule of Roman numerals are these numbers breaking? Fix them.



19 = XVIV

100 = LL








Which is more affected by gravity, the moon or Earth?

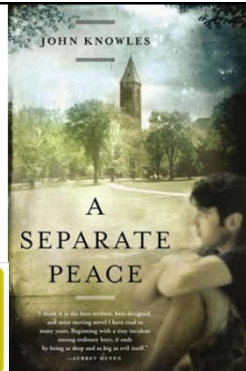

Debate: Because of gravity, planets with large masses are bossier than planets with a smaller mass.



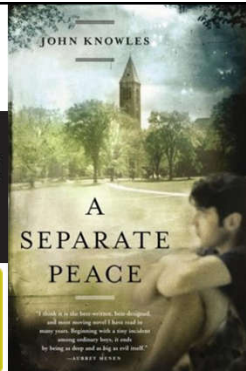

Describe the rules of baseball from the perspective of the ball.




Analyze two conflicts in the story from the perspectives of Finny and Gene.

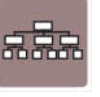
Create a cause and effect chain that traces the origins of those conflicts.








Which one does not belong?


		
	31	28
	23	29

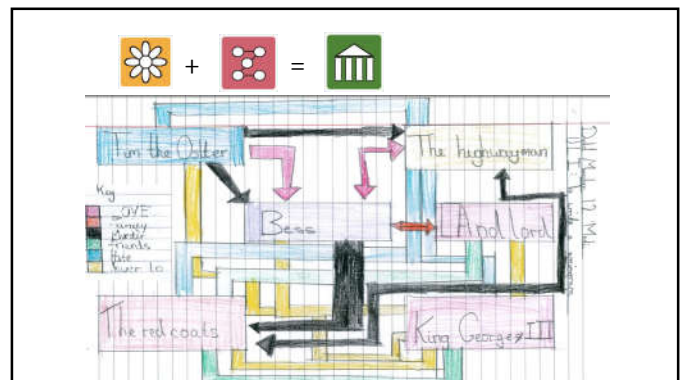
Which one does not belong?

		
	NATO	Treaty of Versailles
	Truman Doctrine	Marshall Plan

 What are the similarities between this and pre-WWI US policy?

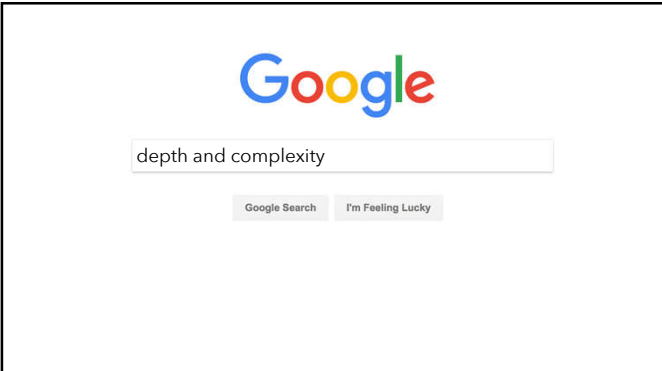
Using  details from the story, show the  patterns of the relationships between the characters.

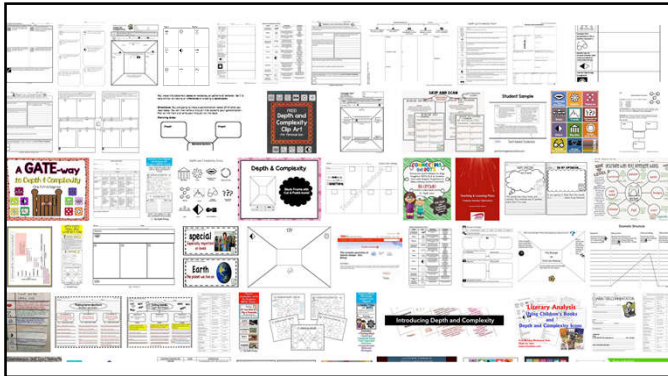
 Analyze those patterns to determine what they say about the difference between the bonds of friendship and family.



*fourth part:*  
Let's go even deeper







Depth	Icon	Definition	Example
Language of the Discipline		What vocabulary terms are specific to the content or discipline?	Terms, acronyms, special phrases, abbreviations, jargon, slang, and terms
Details		What are the defining features or characteristics? Find examples and evidence to support opinions and ideas.	Parts, factors, attributes, variables, distinguishing traits
Patterns		What elements reoccur? What is the sequence or order of events? Make predictions based on past events.	Predictability, Repetition
Unanswered Questions		What information is unclear, missing, or unavailable? What evidence do you need? What has not yet been proven?	Missing parts, incomplete ideas, discrepancies, unresolved issues, ambiguity, structure
Rules		What structure underlies this content? What are the guiding principles or rules that govern the content? How are they applied or used?	Structure, organization, flow, sequence, order, logic, coherence, consistency
Trends		What trends or patterns are visible? How do they change over time? What are the implications of these trends?	Change over time, evolution, development, progression, regression, fluctuation, stability
Ethics		What moral or ethical issues are raised? How are they addressed? What are the implications of these issues?	Moral and ethical issues, values, principles, standards, norms, expectations, consequences, responsibilities
Big Ideas		What are the big ideas or concepts? How are they related to the content? What are the implications of these ideas?	Core concepts, themes, messages, insights, takeaways, lessons, implications, applications
Across the Disciplines		How are these ideas or concepts related to other disciplines? What are the implications of these relationships?	Interdisciplinary connections, cross-disciplinary insights, collaborative learning, integration, synthesis
Changes over Time		How have these ideas or concepts changed over time? What are the implications of these changes?	Evolution, development, progression, regression, fluctuation, stability
Different Perspectives		How do different perspectives affect the content? What are the implications of these perspectives?	Diverse views and experiences, multiple perspectives, cultural differences, bias, prejudice, stereotypes

Based upon the work of Sarah Kaplan

	What vocabulary terms are specific to the content or discipline?	Tools Jargon Icons Acronyms Special phrases Terms Slang Abbreviations
	What are the defining features or characteristics? Find examples and evidence to support opinions and ideas.	Parts Factors Attributes Variables Distinguishing Traits
	What elements reoccur? What is the sequence or order of events? Make predictions based on past events.	Predictability Repetition
	What information is unclear, missing, or unavailable? What evidence do you need? What has not yet been proven? <b>What structure underlies this</b>	Missing Parts Incomplete Ideas Discrepancies Unresolved Issues Ambiguity Structure

What are the rules of multiplication?

What are the patterns in Shakespeare's sonnets?

What is the big idea of the War of 1812?

What are the essential details of a forest?

Book Title: \_\_\_\_\_  
Author: \_\_\_\_\_

What is the main theme of this story?

Do you notice any patterns in this book?

Are you left with any unanswered questions?

What changes over time? What does this suggest? What impact might this story have on the future?

What special writing techniques does the author use? Give examples.

What moral or ethical issues are raised in this book? What consequences result?

How would this book or story be different if you wrote from a different point of view?

Book Title: \_\_\_\_\_  
Author: \_\_\_\_\_





Name: \_\_\_\_\_



What is the main theme of this story?

Do you notice any patterns in this book?

What special writing techniques does the author use? Give examples.



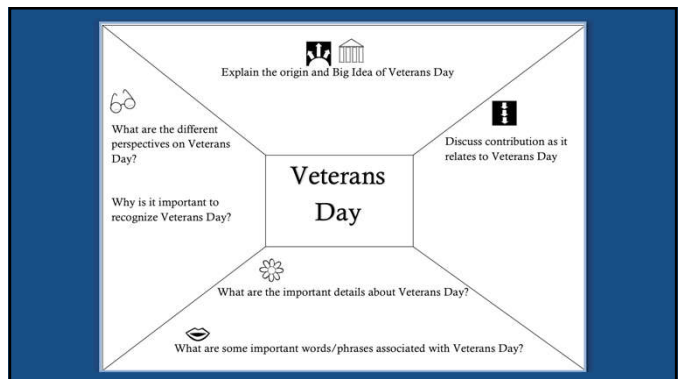
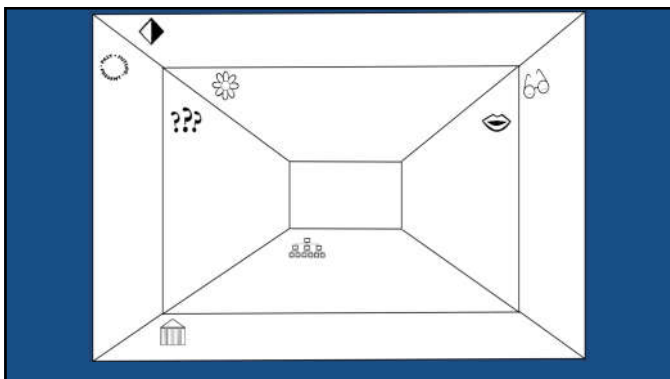
	<p> What moral or ethical issues are raised in this book? What controversies exist?</p>
<p> Are you left with any unanswered questions?</p>	<p> How would this book or story be different if it were written from a different point of view?</p>
<p> What changes over time? What doesn't?</p>	

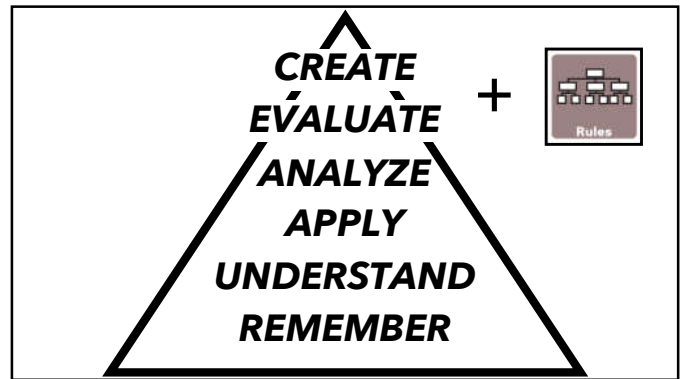
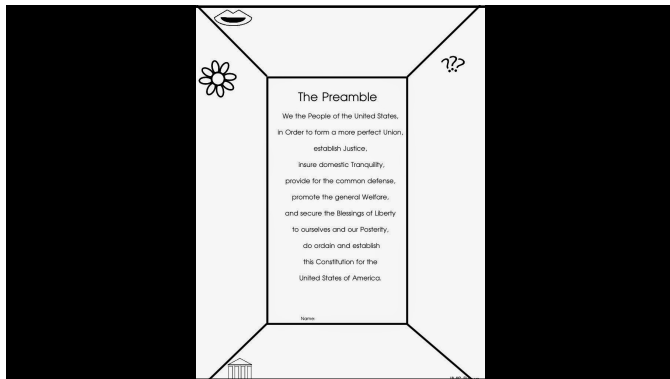
<p> What changes over time? What doesn't change? What impact might this story have on the future?</p>	<p> How would this book or story be different if it were written from a different point of view?</p>


Name: \_\_\_\_\_ Date: \_\_\_\_\_

Objective: \_\_\_\_\_

--	--	--





List the 🏛️ rules of the US Constitution.

Contrast the 🏛️ rules of the US Constitution with those of Japan's Constitution.

Apply the 🏛️ rules of Japan's constitution to the US. What would it be like?

Judge which 🏛️ rules in the US Constitution are least fair.

Create the 🏛️ rules for a new constitution.

What conflicts do you see in the story? 🌸


What conflicts do you see in the story? 🌸


What are the origins of conflict in the story? 🗑️



What conflicts do you see in the story? 🌸

What are the origins of conflict in the story? 🗑️




Using at least seven details 🌸 from the story, create a graphic organizer comparing the origins 🗑️ of the conflict in the story with those from \_\_\_ story.

What conflicts do you see in the story? 

What are the origins of conflict in the story? 

Using at least seven details  from the story, create a graphic organizer comparing the origins  of the conflict in the story.



**Δ: Create a meme that reveals the Big Idea revealed by the origins of conflict in the story.**


Pick **one** character from the story.

Identify **four** traits of that character:

For **two** of the traits, list **two** consequences of that trait. If the consequence is positive, put a + sign next to it.

  {   
  
 } {   
  
 }

Thinking of what you just identified and considered, do you think the character's traits were a hindrance or a help to him/her and why?



 Big Idea


\_\_\_\_\_


\_\_\_\_\_

\_\_\_\_\_


Think of four reasons George Washington should have been a king instead of the president. Then, on the other side of the Thinking Map, think of four future consequences that would have happened if he had become a king.


 

 **Differentiate it!**





 Ethics






Is it fair for one person to be the king or queen for life? Why would it be better or worse to take turns?


 **Differentiate it!**

 Unanswered Questions

Is it possible for a truly free people to have a king or queen? If not, is England really free? Would the English agree they are less free?

 <p>Name FOUR words mathematicians would use to solve this problem.</p>	<p>Solve the problem.</p> 
<p>Does making multiplication the first step mean it's more important than the other steps?</p> 	<p>What is the Big Idea of this type of problem?</p> 


 <p>What would happen if you moved the blue whale up one level in the food chain?</p>	 <p>What animal is the closest land animal to the blue whale in size AND personality?</p>	
		<p>What do you think is a blue whale's favorite number and why?</p>
 <p>Why is it a good idea or not for one animal to be so much bigger than the other animals in the ocean?</p>		

 Language Discipline

Create a linear array of three terms from the water cycle.

```

    graph LR
    A[atmosphere] --> B((precipitation))
    B --> C((infiltration))
    C --> D((groundwater storage))
    D --> E[ocean]
    
```

 Using Screencast-o-Matic, record a tutorial explaining the top ten facts about the water cycle.

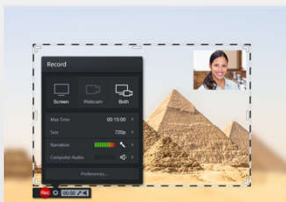
SCREENCAST-O-MATIC for Education for Work for Developers Features Plans My Videos [lisa@savangemert.com](mailto:lisa@savangemert.com)


The original screen recorder

Unlock the power of Screencast-O-Matic's screen recorder for Chromebook, Mac, and PC. Capture any area of your screen. Add audio narration or video from your webcam. Record lectures, tutorials, demos, games and more!

[Get FREE screen recorder](#)

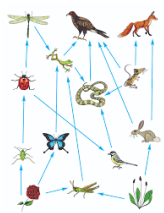

Upgrade to Deluxe for only \$1.50/mo to unlock the video editor.




 Big Idea


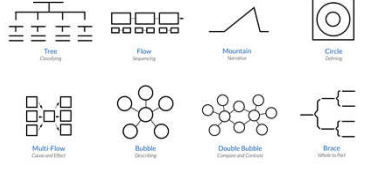
Compare a Big Idea of the water cycle to a Big Idea of the food web. Present your findings in an infomercial.

vs.

 Using the Thinking Map of your choice, illustrate the water cycle.

Explain why you chose the Thinking Map you did.





Follow the water cycle over the course of two days in this demonstration.



Using Sutori.com, create a timeline showing the changing understanding of the water cycle. Include the views of Bernard Palissy, Leonardo da Vinci, and at least one ancient text.

Sutori

Teachers Institutions Business Pricing More ▾

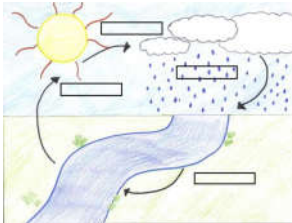
Log in [Sign up](#)

Presentations for the classroom in a unique timeline format

School projects and assignments have never been this fun.



Give them the water cycle out of order and have them correct it.

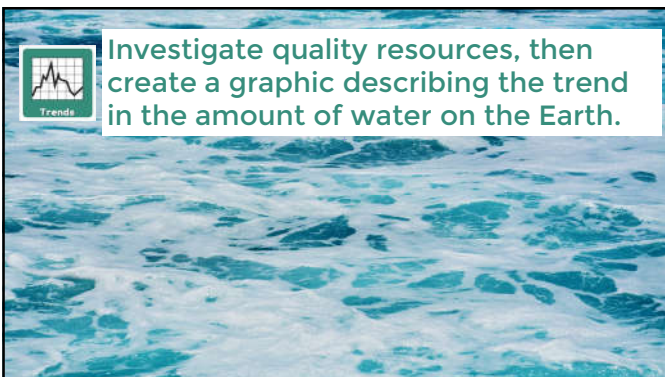


Write two cinquain poems about the water cycle, one from the perspective of a water droplet and one from the perspective of groundwater.

raindrop  
bun-shape droplet  
falling, splashing, soaking  
bringing green, vibrant life  
precipitation



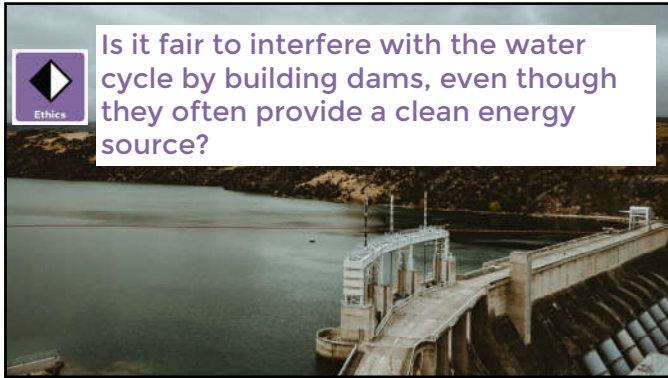
Investigate quality resources, then create a graphic describing the trend in the amount of water on the Earth.



How many kinds of ice are there?

Why do some bodies of water get polluted while others don't?

Which is more valuable to animals, a river or a lake?



**Find out more at  
[giftedguru.com](http://giftedguru.com)  
& [byrdseed.com](http://byrdseed.com).**