

Student Name ______
Teacher Name

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McKeesport Area School District Flexible Instruction Days –Founders Hall Lesson Plan

GRADE/SUBJECT: 8 th Grade Science		LESSON TITLE: The Effects of Change (Biotic and Abiotic Factors)				
□LESSON 1	:	☐ LESSON 2:	☐ LESSON	3:	☐ LESSON 4:	⊠ LESSON 5:
1 st or 2 nd 9-\	Veeks	2 nd or 3 rd 9-Weeks	2 nd or 3 rd 9	-Weeks	2 nd or 3 rd 9-Weeks	3 rd or 4 th 9-Weeks
STANDARD(S) : \$8.A.1.3.2, \$8.A.1.3.3, \$8.A.3.1.4						
INSTRUCTION	NAL OUT	COMES:				
Students w	ll:					
• Und	erstand ho	ow changes affect a habit	at and the p	opulations o	of organisms living in it.	
• Bea	ible to exp	lain and give examples or	f biotic and a	ablotic facto	rs in an ecosystem.	
• Bea	able to de	fine and give examples o	f urban spra	wl, habitat f	ragmentation, habitat d	egradation, and
hab	itat loss.					
•		ION (Lesson steps):				
Students w						
		ages from pages 20-23 ar			ader" questions on each	n page.
**************************************		ocus Questions" at the e	nd of the sec	ction.		
ACCOMMO						
For struggli	~					
ļ.		key terms (in bold print)	in each sect	ion.		
For advanced learners:						
 Complete the "Web Quest" question on page 23 (upper right corner of the page). 						
HANDOUTS (exact names of ALL accompanying handouts) & RESOURCES (materials, websites, books, etc.)						
• The Effect of Change: pages 20-23.						
EVIDENCE OF LEARNING						
Students will demonstrate their:						
• Unc	erstanding	g of the relationship betw	veen living tl	nings and en	vironmental changes tha	at occur over time.
e Abil	 Ability to apply the concepts in this section to various types of ecosystems and organisms. 					



This chapter explains how changes affect a habitat and the populations of organisms living in it. As you read, look for all the types of changes that can happen and how the organisms are affected.

Biothe and Abiotic Factors

The term abiotic refers to non-living things in an environment such as temperature, water, light, soil, wind, and natural disasters. The term biotic refers to living things, such as the organisms that share a habitat.

When change happens to abjoric factors in a habitat, biotic factors are usually affected, too. This is because organisms are adapted to their natural surroundings. Camels, for example, possess physical features which make them well-suited to a desert habitat. Animals that lack features like these will begin to die off if climate change slowly converts their normally-wetter habitat to desert.

Changes to Abiotic Factors

Changes in natural surroundings affect organisms, sometimes for the better, other times for the worse. A much-needed rainfall may end a drought in one area, while a wildfire may destroy a forest in another. Environmental changes have positive and negative effects. For example, an early frost will harm some plants, but it will also kill adult fleas thereby benefitting mammals.

Large scale climate change can affect populations, too. For example, if the polar bears die off because of warming seas, the populations of prey species such as seals may increase to the point that the available resources in the environment can't support them.

Humans are a major source of change to abiotic factors in an ecosystem. For example, we like to spread out and build in new places creating urban sprawl. When we start building, we first have to level the area we want to build on, including removing trees and smaller plants. This drives away the herbivores that rely on those plants for food. The carnivores, omnivores, scavengers, and decomposers that rely on the herbivore populations for food will either die off or be forced to move away as well.

I Cause and Effect Name a natural disaster, and describe an effect it can have on the organisms in a habitat. 2 Define Explain the difference between biotic and abiotic factors in your own words.

Habitat Fragmentation

Habitats can become fragmented—broken up into smaller areas some of which are completely isolated from the others. The major cause of habitat fragmentation is development by humans. As the built environment expands, habitats are broken up and isolated from one another.

This kind of development has occurred in Pennsylvania and around the world for generations. Before 1800 deer were very common in Pennsylvania. The population was kept in control by predators, including people, wolves, and cougars. Later, settlers began to cut down the forest and create farms. This broke up the vast forest, thereby fragmenting the deer's habitat. Wolves and cougars were eliminated by hunting, and hunting deer by humans increased. The Pennsylvania Game Commission estimated around 1900 that there were only about 500 deer in Pennsylvania.

Habitat fragmentation can cause populations of animals to move away and can even lead to extinction. But the story of Pennsylvania's whitetail deer has a different ending. The commission began stocking deer in 1906 and continued through the 1920s. Today, they have flourished, living just about anywhere and eating just about anything to survive.

The deer adapted to their new habitat in part by changing their diet. Today, their diet includes almost any vegetation including many of the plants in our yards. Now, whitetail deer live on the edge of the forest and spend much of their time in small clearings and open fields.



In 1900, there were only a few hundred whitetail deer in Pennsylvania.

ACTIVE READER

I Define Explain what is meant by the term built environment?

2 Classify Deer will sometimes eat meat, such as bird

2 Classify Deer will sometimes eat meat, such as bin eggs and carrion. How should deer be classified as to their feeding habits?

a) herbivore

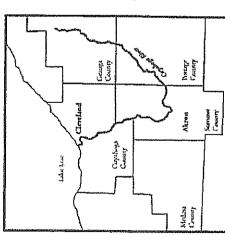
b) carnivore

d) decomposer

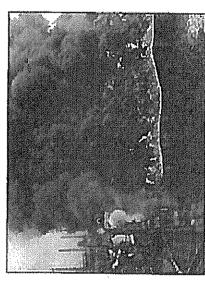
Habitat degradation occurs when a habitat becomes less able to support the life of the organisms that live in it. Pollution is often the cause of habitat degradation. The Cuyahoga River, for example, runs through the cities of Akron and Cleveland. The river became heavily polluted by the dumping of sewage and industrial waste in the twentieth century and actually caught fire several times between 1936 and 1968. The habitat was so degraded by 1968 that it supported little life in the section that runs between Akron and Cleveland.

Efforts to restore the Cuyahoga habitat have been largely successful. Populations of fish have returned and the river can be used for activities such as boating and wading.

The increase or decrease of a population because of habitat fragmentation or degradation also affects other populations. For example, humans sometimes build where tree sparrows usually nest. The sparrows move to a new spot, crowding the bird population in the new habitat. The sparrows eat a lot of seeds and insects, creating a scarcity for other birds and small animals that eat the same things. However, the food supply for larger carnivores that feed on sparrows, such as owls, increases and allows for an increase in the population of the larger carnivores.



The Cuyahoga River flows south from Geauga County to Akron, then north from Akron to Cleveland where it flows into Lake Erie.



Pollutian in the Cayaboga River caused it to catch on fire several times henveen 1936 and 1968.

VICKER BALLS

I Interpret The map shows that the source of the Cayahoga River is in Geauga County. Where is its mouth?

I Infer Rerend paragraph 3.
Explain what might happen
if the pupulation of larger
carnivores increases beyond the
capacity of the habitat to provide
food for them all.

- a) The berbivores will move away.
- b) The carnivores will fight cuch other, die off, or move away.
- c) The omnivores will increase, providing more food for the curninares.

Habitat Loss

Pollution, massive development, and climate change can lead to the complete loss of habitat. Habitat loss changes or eliminates the conditions organisms need to survive. The rate of species extinction, a normal part of the natural world, is speeded up to an unnatural level. When habitat is lost on a large scale, the world's biodiversity is threatened.

The term *biodiversity* means "biological diversity" and it refers to the genetic variation within and between all species. Maintaining this variation is key to how all natural and man-made habitats function.



Humans affect wildlife in many ways — directly as well as indirectly. Pollution, is a major cause of habitat degradation. Research online

to find ways people affect wildlife and the environment. What can we do to stop or slow any harmful effects?

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2. What might bring on a positive change in a habitat?		1. What, besides drought or urban sprawl, might affect a food chain? Explain the effect.





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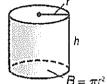
GRADE/SUBJECT: Math – Grade 8			LESSON TITLE: Volume of Solids			
CLESSON 1:	☐ LESSON 2:	☐ LESSON	3:	☐ LESSON 4:	☑ LESSON 5:	
1 st or 2 nd 9-Weeks	2 nd or 3 rd 9-Weeks	2 nd or 3 rd 9-	-Weeks	2 nd or 3′ ^d 9-Weeks	3 rd or 4 th 9-Weeks	
STANDARD(S):	!					
 8.G.C.9 – Know the formulas for volumes of cones, cylinders, and spheres and use them to solve real world and mathematical problems. 						
INSTRUCTIONAL OUT	OMES:		·····		<u></u>	
Students will:						
 Use formulas of 	of capacity to find the vo	lume of shap	oes			
STUDENT PARTICIPAT	ION (Lesson steps):					
Students will:						
1. Solve volume p	problems					
ACCOMMODATIONS:		***************************************	····		72.0	
For struggling learners	; .					
 FID Lesson 5 D 	L					
For advanced learners	:					
Bonus activities within the assignment						
HANDOUTS (exact names of ALL accompanying handouts) & RESOURCES (materials, websites, books, etc.)						
 Worksheet FIE) -5					
EVIDENCE OF LEARNIN	FVIDENCE OF LEARNING					
Students will demonst	Students will demonstrate their:					
 Ability to solve 	e for the volume of solids	5				

For any student that does not have access to a calculator, in lieu of solving the problem for the final answer simply substitute your values into the formula

Volume of Cylinders

As with prisms, the area of the base of a cylinder tells the number of cubic units in one layer. The height tells how many layers there are in the cylinder. The volume V of a cylinder with radius r is the area of the base B times the height h.

V = Bh, where $B = \pi r^2$, or $V = \pi r^2 h$



Example

Find the volume of the cylinder. Round to the nearest tenth.

 $V \approx \pi r^2 h$

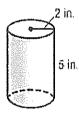
Volume of a cylinder

 $V \approx \pi(2)^2(5)$ Replace r with 2 and h with 5.

 $V \approx 62.8318$

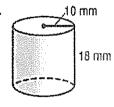
Use a calculator

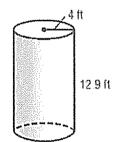
The volume is about 62.8 cubic inches.

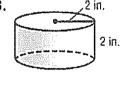


Exercises

Find the volume of each cylinder. Round to the nearest tenth – #3 and #6 are bonus







4. radius = 9.5 yd height = 2.2 yd

- 5. diameter = 6 cm height = 11 cm
- 6. diameter = 3.4 m height = 1.25 m

Volume of Cones

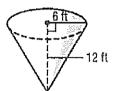
A cone is a three-dimensional shape with one circular base.

The volume V of a cone with radius r is one third the area of the base B times the height h.

$$V = \frac{1}{3}Bh$$
 or $V = \frac{1}{3}\pi r^2h$

Example

Find the volume of the cone. Round to the nearest tenth.



$$V = \frac{1}{3}\pi r^2 h$$

$$V = \frac{1}{3}\pi r^2 h$$
 Volume of a cone

$$V = \frac{1}{3}(\pi \cdot 6^2 \cdot 12)$$
 $r = 6$ and $h = 12$

$$r = 6$$
 and $h = 12$

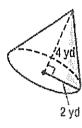
Simplify.

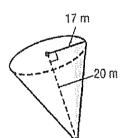
The volume is about 452.4 cubic feet.

Exercises

Find the volume of each cone. Round to the nearest tenth. - #3 and #6 are bonus

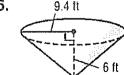
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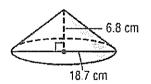












Volume of Spheres

A sphere is a set of all points in space that are a given distance from a given point.

The volume V of a sphere with radius r is four thirds the product of π and the cube of the radius r. $V = \frac{4}{3}\pi r^3.$

Example

Find the volume of the sphere. Round to the nearest tenth.



$$V = \frac{4}{3}\pi r^3$$

 $V = \frac{4}{3}\pi r^3$ Volume of a sphere

$$V = \frac{4}{3} (\pi \cdot 4^3) \ r = 4$$

Simplify. Use a calculator.

The volume is about 268.1 cubic feet.

Exercises

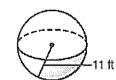
Find the volume of each sphere. Round to the nearest tenth. - #3 and #6 are bonus

1.

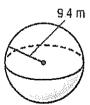




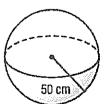
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4.



5.





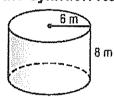
Surface Area of Cylinders

The surface area S.A. of a cylinder with height h and radius r is the sum of the area of the curved surface and the area of the circular bases.

$$S.A. = 2\pi rh + 2\pi r^2$$

Example

Find the total surface area of the cylinder. Round to the nearest tenth.



 $S.A. = 2\pi rh + 2\pi r^2$

Surface area of a cylinder

 $S.A. = 2\pi(6)(8) + 2\pi(6)^2$

Replace r with 6 and h with 8.

S.A. ≈ 527.7875

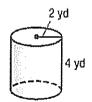
Simplify.

The surface area of the cylinder is about 527.8 square meters.

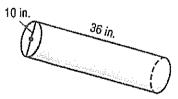
Exercises

Find the total surface area of each cylinder. Round to the nearest tenth, # 4 is bonus

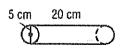
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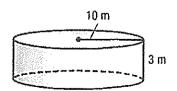


2.



3.





Surface Area of Cones

The lateral area L.A. of a cone is π times the radius times the slant height, or $L.A. = \pi r\ell$. The total surface area of a cone with slant height ℓ and radius r is the lateral area plus the area of the base. or S.A. = L.A. + πr^2 or S.A. = $\pi r \ell + \pi r^2$.

Example

Find the lateral and total surface areas of the cone. Round to the nearest tenth.

Lateral Surface Area

$$L.A. = \pi r\ell$$

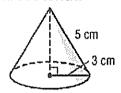
$$L.A. = \pi \cdot 3 \cdot 5 r = 3, \ell = 5$$

$$L.A. \approx 47.1$$

Total Surface Area

$$S.A. = L.A. + \pi r^2$$

$$S.A. = 47.1 + \pi \cdot 3^2$$



The lateral and total surface areas of the cone are about 47.1 and 75.4 square centimeters.

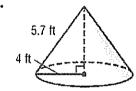
Exercises

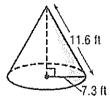
Find the lateral and total surface areas of each cone. Round to the nearest tenth. # 4 is bonus

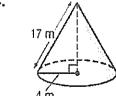
1.



2.







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Changes in Dimensions

A scale factor is how much larger or smaller one solid is than another. Similar solids have the same shape and their corresponding linear measures are proportional.

For similar solids A and B:

surface area of $B = (surface area of A) \times (scale factor)^2$

Example 1

The surface area of a rectangular prism is 144 square centimeters. Find the surface area of a similar prism that is larger by a scale factor of 4.

 $S.A. = 144 \cdot 4^2$

Multiply by the square of the scale factor.

S.A. = 144 ∘ 16

Square 4.

 $S.A. = 2,304 \text{ cm}^2$

Simplify.

For similar solids A and B:

Volume of $B = (\text{volume of } A) \times (\text{scale factor})^3$

Example 2

The volume of a rectangular prism is 120 cubic feet. Find the volume of a similar prism that is larger by a scale factor of 2.

 $V = 120 = 2^3$

Multiply by the cube of the scale factor.

V = 120 = 8

Cube 2.

 $V = 960 \text{ ft}^3$

Simplify.

Choose 2 - All 4 bonus

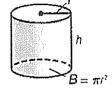
- 1. The surface area of a rectangular prism is 1,150 square inches. Find the surface area of a similar prism that is larger by a scale factor of 2.
- 2. The surface area of a pyramid is 38 square feet. What is the surface area of a similar pyramid that is smaller by a scale factor of $\frac{1}{3}$? Round to the nearest tenth.
- 3. The volume of a triangular prism is 5 cubic meters. Find the volume of a similar prism that is larger by a scale factor of 3.
- **4.** The volume of a cylinder is 416 cubic inches. What is the volume of a similar cylinder that is smaller by a scale factor of $\frac{1}{3}$?

For any student that does not have access to a calculator, in lieu of solving the problem for the final answer simply substitute your values into the formula

Volume of Cylinders

As with prisms, the area of the base of a cylinder tells the number of cubic units in one layer. The height tells how many layers there are in the cylinder. The volume V of a cylinder with radius r is the area of the base B times the height h.

V = Bh, where $B = \pi r^2$, or $V = \pi r^2 h$



Example

Find the volume of the cylinder. Round to the nearest tenth.

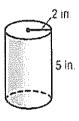
 $V \approx \pi r^2 h$

Volume of a cylinder

 $V \approx \pi(2)^2(5)$ Replace r with 2 and h with 5.

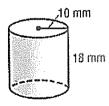
V≈ 62.8318 Use a calculator

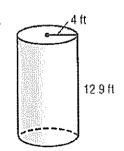
The volume is about 62.8 cubic inches.

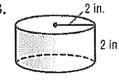


Exercises

Choose 3 - each additional problem is bonus







4. radius = 9.5 ydheight = 2.2 vd

- 5. diameter = 6 cm height = 11 cm
- 6. diameter = 3.4 m height = 1.25 m

Volume of Cones

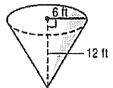
A **cone** is a three-dimensional shape with one circular base.

The volume V of a cone with radius r is one third the area of the base B times the height h.

$$V = \frac{1}{3}Bh \text{ or } V = \frac{1}{3}\pi r^2 h$$

Example

Find the volume of the cone. Round to the nearest tenth.



$$V = \frac{1}{3}\pi r^2 h$$

$$V = \frac{1}{3}\pi r^2 h$$
 Volume of a cone

$$V = \frac{1}{3}(\pi \cdot 6^2 \cdot 12)$$
 $r = 6$ and $h = 12$

$$r = 6$$
 and $h = 12$

Simplify.

The volume is about 452.4 cubic feet.

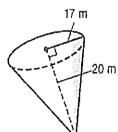
Exercises

Choose 3 - each additional problem is bonus

4.

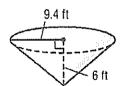


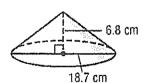
2.











Volume of Spheres

A sphere is a set of all points in space that are a given distance from a given point.

The volume V of a sphere with radius r is four thirds the product of π and the cube of the radius r.

$$V = \frac{4}{3}\pi r^3.$$

Example

Find the volume of the sphere. Round to the nearest tenth.



$$V = \frac{4}{3} \pi r^3$$

 $V = \frac{4}{3}\pi r^3$ Volume of a sphere

$$V = \frac{4}{3} (\pi \cdot 4^3) \ r = 4$$

 $V \approx 268.1$ Simplify. Use a calculator.

The volume is about 268.1 cubic feet.

Exercises

Choose 3 - each additional problem is bonus

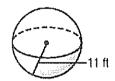
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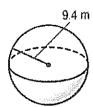
2.



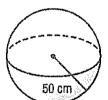
3.

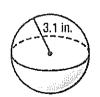


4.



5.





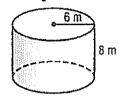
Surface Area of Cylinders

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$$S.A. = 2\pi rh + 2\pi r^2$$

Example

Find the total surface area of the cylinder. Round to the nearest tenth.



 $S.A. = 2\pi rh + 2\pi r^2$

Surface area of a cylinder

 $S.A. = 2\pi(6)(8) + 2\pi(6)^2$

Replace r with 6 and h with 8.

S.A. ≈ 527.7875

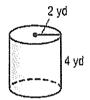
Simplify.

The surface area of the cylinder is about 527.8 square meters.

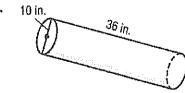
Exercises

Choose 2 - each additional problem is bonus

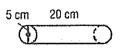
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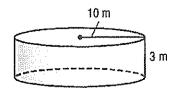


2.



3.





Surface Area of Cones

The lateral area L.A. of a cone is π times the radius times the slant height, or L.A. = $\pi r\ell$. The total surface area of a cone with slant height ℓ and radius r is the lateral area plus the area of the base, or S.A. = L.A. + πr^2 or S.A. = $\pi r \ell + \pi r^2$.

Example

Find the lateral and total surface areas of the cone. Round to the nearest tenth.

Lateral Surface Area

$$L.A. = \pi r \ell$$

$$L.A. = \pi \cdot 3 \cdot 5 r = 3, \ell = 5$$

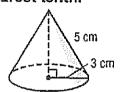
$$L.A. \approx 47.1$$

Total Surface Area

$$S. A. = L. A. + \pi r^2$$

$$S.A. = 47.1 + \pi \cdot 3^2$$

$$S.A. \approx 75.4$$

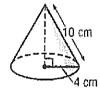


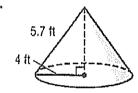
The lateral and total surface areas of the cone are about 47.1 and 75.4 square centimeters.

Exercises

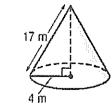
Choose 2 - each additional problem is bonus

1.









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Changes in Dimensions

A scale factor is how much larger or smaller one solid is than another. Similar solids have the same shape and their corresponding linear measures are proportional.

For similar solids A and B:

surface area of $B = (surface area of A) \times (scale factor)^2$

Example 1

The surface area of a rectangular prism is 144 square centimeters. Find the surface area of a similar prism that is larger by a scale factor of 4.

$$S.A. = 144 \cdot 4^2$$

Multiply by the square of the scale factor.

Square 4.

$$S.A. = 2.304 \text{ cm}^2$$

Simplify.

For similar solids A and B:

Volume of $B = (volume of A) \times (scale factor)^3$

Example 2

The volume of a rectangular prism is 120 cubic feet. Find the volume of a similar prism that is larger by a scale factor of 2.

 $V = 120 \circ 2^3$

Multiply by the cube of the scale factor.

V = 120 = 8

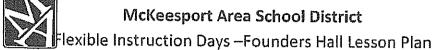
Cube 2.

 $V = 960 \text{ ft}^3$

Simplify.

Choose 2 - each additional problem is bonus

- The surface area of a rectangular prism is 1,150 square inches. Find the surface area of a similar prism that is larger by a scale factor of 2.
- 2. The surface area of a pyramid is 38 square feet. What is the surface area of a similar pyramid that is smaller by a scale factor of $\frac{1}{3}$? Round to the nearest tenth.
- 3. The volume of a triangular prism is 5 cubic meters. Find the volume of a similar prism that is larger by a scale factor of 3.
- 4. The volume of a cylinder is 416 cubic inches. What is the volume of a similar cylinder that is smaller by a scale factor of $\frac{1}{2}$?



GRADE/SUBJECT: 8 History LESSON TITLE: CNN 10

⊠LESSON 1: ⊠ LESSON 2: ⊠ LESSON 3: ⊠ LESSON 4:

STANDARD(S): 5.1.8.C, 5.1.8.F, 5.2.8.B

INSTRUCTIONAL OUTCOMES:

Students will:

- Understand one major current event in the world
- Be able to list the major events both locally and worldly for the upcoming quiz

STUDENT PARTICIPATION (Lesson steps):

Students will:

- 1. Watch the CNN 10 video clip online
- 2. Complete the CNN 10 Student News Guided Worksheet

ACCOMMODATIONS:

For struggling learners:

Students can only write their reflection on one of the current event stories in the video.

For advanced learners:

• Students can complete both sides of the worksheet and receive bonus for choosing a single story on the reverse side

HANDOUTS (exact names of ALL accompanying handouts) & RESOURCES (materials, websites, books, etc.)

- CNN 10 website
- CNN Student News Guided Worksheet
- Current Event Reviewsheet

EVIDENCE OF LEARNING

Students will demonstrate their:

- Understanding of the main ideas for the major stories discussed in the video
- By being able to provide the correct answers on the weekly quiz from the notes on the video and the completed worksheet
- By being able to discuss their reflection on their worksheet when they return to class



Day of the Week	Describe the news stories from the day:
	,
· disid	
4.	
Describe the "Before We Go":	
l l	
	n on one of today's top stories? Write a short summary:

p may have

AME	
ATE	
	Current Event
ublication or W	'ebsite
Copic of Storie	
Briefly summari	ze the important information from the Sturice.
_	
	pinion or reaction to this article?



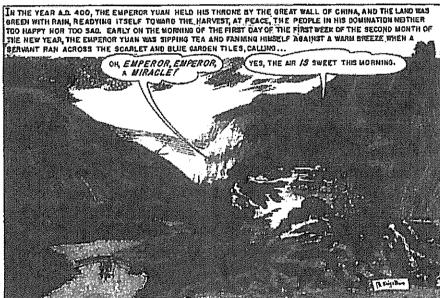
McKeesport Area School District Flexible Instruction Days –Founders Hall Lesson Plan

GRADE/SUBJECT: 8th	English and Language A	Arts LESSON	TITLE: The Flying Machin	e	
□LESSON 1: 1 st or 2 nd 9-Weeks	LESSON 2: 2 nd or 3 rd 9-Weeks	LESSON 3: 2 nd or 3 rd 9-Weeks	LESSON 4: 2 nd or 3 rd 9-Weeks	☑ LESSON 5: 3 rd or 4 th 9-Weeks	
STANDARD(S): Citing story verses the grap		ing theme. Analyzing di	alogue. Comparing and o	contrasting the short	
INSTRUCTIONAL OU	TCOMES:				
Students will:					
	graphic novel and how to				
	ompare and contrast mul	tiple literary sources an	id cite textual evidence.		
	ATION (Lesson steps):				
Students will:					
 Read graphic novel in close reader book. Pages 118-124, including the short response. 					
ACCOMMODATION:					
For struggling learne					
 Students will complete the even numbered questions as well as the short response. 					
For advanced learne					
			ing the vocabulary word		
1		ing handouts) & RESOU	RCES (materials, websites	s, books, etc.)	
 Close reader 	r book				
EVIDENCE OF LEARN	IING				
Students will demo	nstrate their:				
 Understanding how different mediums can produce the same result 					
 By being abl 	 By being able to construct writing response and compare and contrast using appropriate textual evidence 				



- 1. READ As you read the following two pages, begin to collect and cite text evidence.
 - Circle illustrations that show the characters' reactions to the "miracle."
 - Circle illustrations and text that tell you about the flying machine.
 - Circle the illustration of the Great Wall and explain its importance in the margin.

ne FITTO MAGINE













IT IS
EARLY,
AND YOU
HAVE JUST
WAKENED
FROM A
DREAM.



THEY CHANK TEA. THE EMPEROR ROSE THOUGHTFULLY AS THE SER-



THEY WALKED INTO A GARDEN, ACROSS A MEADOW OF GRASS, OVER A SMALL BRIDGE, THROUGH A GROVE OF TREES, AND UP A TINY HILL...



THE EMPERON LOOKED INTO THE SKY...

And in the sky, laughing so high that you could hardly hear him laugh, was a man; and the man was clothed in bright papers and reeds to make wings and a beautiful yellow tall, and he was soaring all about like the largest bird in a universe of birds, like a new dragon in a land of



THE EMPEROR YUAN DID NOT MOVE, INSTEAD HE LOOKED AT THE GREAT WALL OF CHINA NOW TAKING SHAPE OUT OF THE FARTHEST MIST IN THE GREEN HILLS, THAT WONDERFUL WALL WHICH HAD PROTECTED THEM FOR A TIMELESS TIME FROM ENEMY HORDES AND PRESERVED PEACE FOR YEARS WITHOUT MUMBER...



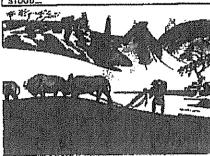
THE EMPEROR WATCHED THE HEAVENS ANOTHER MINUTE AND THEN SAID...



2. CREREAD Contrast the drawings of the Emperor with the drawings of the servant. How do the illustrations convey each character's feelings about the flying machine?

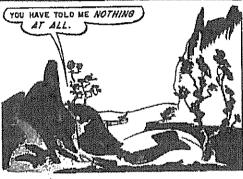
THE EMPEROR GLANCED IN ALL DIRECTIONS WHILE THE FLYING MAN SOARED DOWN THE MORNING WIND. HE SAW A FARMER, EARLY IN HIS FIELDS, WATCHING THE SKY, AND HE NOTED WHERE THE FARMER STOOD.

THE FLYING MAN ALIT WITH A RUSTLE OF PAPER AND A CREAK OF BAMBOO REEDS. HE CAME PROUBLY TO THE EMPEROR, CLUMSY IN HIS RIG, AT LAST BOWING BEFORE THE OLD MAN... &









THE EMPEROR REACHED OUT A THIN HAND TO TOUCH THE PRETTY PAPER AND THE BIRDLIKE KEEL OF THE APPARATUS, IT SMELLED COOL, OF THE WIND...







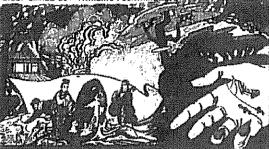
- 3. READ As you read this page and the next, continue to cite text evidence.
 - In the margin, explain the purpose of the Emperor's questions.
 - On the next page, underline the question the flying man asks.
 - Circle the close up of the Emperor's face.





4. (REREAD AND DISCUSS) In a small group, discuss how the Emperor's expression in the close-up image might affect your perception of the story. Cite textual evidence in your discussion.

THE MACHINE WAS A GARDEN OF METAL AND JEWELS, SET IN MOTION, BIRDS SANG IN TINY METAL TREES, WOLVES WALKED THROUGH MINIATURE FORESTS, AND TINY PEOPLE RAN IN AND OUT OF SUN AND SHADDW, FANNING THEMSELVES WITH MINIATURE FANS, LISTENING TO THE TINY EMERALD BIRDS, AND STANDING BY IMPOSIBLY SMALL BUT TINKLING FOUNTAINS



THE EMPEROR SAID...

IS IT NOT SEAUTIFUL? IF YOU ASKED ME WHAT I HAVE DONE HERE, I COULD ANSWER YOU WELL I HAVE MADE BIRDS SING, I HAVE MADE FORESTS MURMUR, I HAVE SET PEOPLE TO WALKING IN THIS WOODLAND, ENJOYING THE LEAVES AND SHADOWS AND SONGS, THAT IS WHAT I HAVE DONE.



THE FLIER, ON HIS KNEES, THE TEARS POURING DOWN HIS FACE, PLEADED.

BUT I HAVE DONE A SIMILAR THING! I HAVE FOUND BEAUTY. I

HAVE FLOWN ON THE MORNING WIND. I HAVE LOOKED DOWN ON

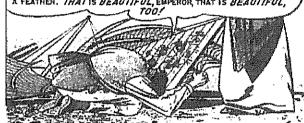
ALL THE SLEEPING HOUSES AND GARDENS. I HAVE SMELLED THE SEA

AND EVEN SEEN IT, BEYOND THE MILS, FROM MY HIGH PLACE. AND

I HAVE SOARED LIKE A BIRD. OH, I CANNOT SAY HOW BEAUTIFUL IT

19 UP THERE, IN THE SKY, WITH THE WIND ABOUT ME, BLOWING ME LIKE

A FEATHER. THAT IS BEAUTIFUL, EMPEROR, THAT IS BEAUTIFUL,



YES, I KNOW IT MUST BE TRUE. FOR I FELT MY HEART MOVE WITH YOU IN THE AIR AND I WONDEED: WHAT IS IT LIKE? HOW DOES IT FEEL? HOW DO THE DISTANT POOLS LOOK FROM SO HIGH? AND HOW MY HOUSES AND SERVANTS? LIKE ANTS? AND HOW THE DISTANT TOWNS, NOT YET AWAKE?







- 5. READ As you read this page and the next, continue to cite text evidence.
 - Circle repetitions of "beauty" and "beautiful," and in the margin, explain the flier's argument that his life should be spared.
 - In the margin, explain the imagery that illustrates the flier's death.
 - Circle birds in the last frame.









THE EMPEROR TURNED TO HIS SERVANT WHO HAD SEEN THE MAN FLYING

HOLD YOUR TONGUE, IT WAS ALL A DREAM, YOU ARE
A MOST SORROWFUL AND BEAUTIFUL
DREAM. AND THAT FARMER IN THE
DISTANT FIELD WHO ALSO SAW, TELL HIM
IT WOULD PAY HIM TO CONSIDER IT ONLY
A VISION, IF EVER THE WORD PASSES
AROUND, YOU AND THE FARMER DIE
WITHIN THE HOUR.



THE OLD MAN SAW, BEYOND THE GARDEN WALL, THE GUARDS BURNING THE BEAUTIFUL MACHINE OF PAPER AND REEDS THAT SMELLED OF MORNING WIND. HE SAW THE DARK SMOKE CLIMB INTO THE SKY...



HE SAW THE GUARDS DIGGING A TINY PIT WHEREIN TO BURY THE ASHES.

WHAT IS THE LIFE OF ONE MAN AGAINST A MILLION OTHERS? I MUST TAKE SOLACE FROM



HE TOOK THE KEY FROM ITS CHAIN ABOUT HIS NECK AND ONCE MORE WOUND UP THE BEAUTIFUL MINATURE GARDEN, THE TINY GARDEN WHIRRED ITS HID-DEN AND DELICATE MACHINERY AND SET ITSELF INTO MOTION; TINY PEOPLE WALKED IN FORESTS. TINY FOXES LOPED THROUGH SUN-SPECKLED GLADES AND AMONG THE TINY TREES FLEW LITTLE BITS OF HIGH SONG AND BRIGHT BLUE AND YELLOW COLOR, FLYING, FLYING, FLYING IN THAT SMALL SKY.





6. With a small group, discuss why the death of the flier was depicted as it was. What feelings might the writers have been trying to evoke by depicting his death this way? Cite text evidence in your discussion.

SHORT RESPONSE

Cite Text Evidence What are the advantages of reading "The Flying Machine" as a graphic story instead of a short story? Review your reading notes, and remember to cite text evidence in your response.				
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