# Issue Overview: Do video games cause violence?

By procon.org, adapted by Newsela staff on 11.28.16 Word Count **653** 



Gamers play the video game "For Honor," developed by Ubisoft Montreal and published by Ubisoft, during "Paris Games Week" in Paris, France, October 28, 2016. Photo: Getty Images.

Free time means video game time for many American kids. It seems nearly all kids ages 12 to 17 in the United States play some type of video game.

There are many types of video games to choose from. They include sports, racing and dancing. Some games are simulations. This means acting like a character in a certain setting.

More than half of the most popular video games contain violence. They show harmful actions toward others. An example of this is when a video game player shoots people in the game.

Some people think this may be causing problems when players aren't playing the games. They think video games are teaching children to behave badly in the real world. Certain video games have been blamed for school shootings, bullying and harm to women. Many worry that children are learning this behavior is acceptable from the games they play.

Others say there is no proof that video games cause players to hurt people. They argue that these video games allow players to release angry feelings while playing a game.

### **Ratings For Video Games**

The concern over video games started in 1976 with "Death Race." In this game, players drove over "gremlins" to kill them. The creatures looked like stick-figure humans. People were angry that children played this game. "Death Race" machines were taken out of arcades and burned. The company stopped making the game.

By the early 1990s, Congress discussed having the government regulate video games. Instead, video game companies started their own group. It is called the Entertainment Software Rating Board (ESRB). This group gives video games certain ratings. This lets people know if the games are OK for children to play, or just grownups.

The ESRB has been giving ratings for 20 years. Most of the games have ratings for children older than 10 or teens. But, there are thousands of games with ratings for grownups only. Many kids play these games anyway.

### Judges Strike Down Laws Against Selling Videos To Kids

Attention on video games was renewed again in 1999. Two teens were responsible for mass shootings at Columbine High School in Colorado. Later it was learned that the shooters often played violent video games. Many people blamed video games for this mass shooting and others. But, there also have been mass shootings where the shooter did not play video games. The 2007 Virginia Tech shooting is one such example.

States and cities have passed laws against the sale of certain video games to kids. However, those laws were struck down by judges. Courts have said there is no clear link between actions in video games and actions in the real world. There had been a law in California that said certain video games could not be sold to kids. The country's highest court, the Supreme Court, reversed that law in 2011.

Video game companies say that if video games caused violence, there would be an increase in violent crimes committed by kids. But, the companies and other supporters of video games say there has been no increase. Some crimes committed by kids have gone down at the same time that sales of video games have gone up.

### Need To Further Study Effects Of Video Games

Many suggest that this topic should be studied more. In 2013, President Barack Obama requested \$10 million from Congress to pay for studies about gun violence, including "the effects violent video games have on young minds." However, Congress did not approve the funding for the studies.

The American Psychological Association is a group that studies the mind and behavior. In 2015, the group said playing certain video games is linked to hostile behavior. But, the group did not find enough evidence that this increases violence in the real world.

As games continue to get more sophisticated and realistic, the debate over video games and violence in the real world continues.

# DAY ONE: AMI

# <u>CLOSE READING</u>

Read the text 2 times: Once for understanding
Twice for analyzing

Important Information
Box things to discuss in groups
Underline main points of each section (Also, make sure you are giving a wrapup sentence after each section in the margins)
Circle high level or confusing vocabulary
Where things are confusing or you have a
question about (be sure to list the question after the symbol)Ilike or agree with
X I disagree or would change

# DAY TWO: AMI

Pretend you are a video game writer. Your team has decided to pitch an idea to the corporate office about a new game. You are the head writer on this idea. Complete your plan sheet below.

Video Game Title:	
Video Game Characters:	
Character Powers/Abilities:	
Purpose of the Game: How do you win?	
Narrative: What is the storyline of your game?	
What are the obstacles of your game?	

Some video games like *Minecraft* don't have a narrative to lead you through the game. It is a creative outlet where you build your environment, but this idea DOES NOT need to have the same outcome. You are challenging yourself by thinking of a narrative that would provide your characters with options to go through different avenues to reach their destination or goal. There must be obstacles or problems that they must get through to reach the end of game.

# DAY THREE: AMI

### TRAPPED!

Picture this: You are sitting in front of your device with your friend. You are both enjoying the new game you got for Christmas. One minute you are frantically pushing buttons, and the next you are inside the game! Tell what happens next in a scene below.

### Rubric:

- ☐ 5 examples of dialogue written correctly
  - \*\*\*only one character can talk in a paragraph
  - \*\*\*the first letter of the dialogue is capitalized
  - \*\*\*punctuation is always inside the quote and by the tag
  - \*\*\*the tag (he/she said) can be at the beginning, middle, or end of the quote)
- 2 complex openers
  - \*\*\*openers have part of a sentence connected to a simple sentence
  - \*\*\*if you forget the comma, you make a run on
  - \*\*\*the comma goes after the phrase at the beginning
  - \*\*\*if you cover the opener, there should still be sentence at the end.
  - \*\*\*Ex: After is snowed, we had to stay home from school.
- Capitalization
  - \*\*\*characters names, locations, places
  - \*\*\*the letter "I"
  - \*\*\*the beginning of dialogue
  - \*\*\*the beginning of sentences
- ☐ Structure
  - \*\*\*you are only writing a main event--not a beginning or end to your story
  - \*\*\*think of this as a climax to a story
  - \*\*\*throw me right into the action and then leave me hanging
  - \*\*\*write in complete sentences and in paragraph form

# DAY FOUR: AMI

Issue: Are video games good for you and others?

Take a position: Are you pro (for) video games or con (against) video games?

Task: State your thinking in a paragraph below.

### Rubric:

### **INCLUDE:**

- \*2 transition words to let the reader follow your thinking (for example, first, another reason, etc)
- \*2 reasons to support your position
- \*A claim or TS to show your reader your stance on this issue. (AKA an obvious statement stating how you feel about gaming. TIP: Answer the question at the top of the page)
- \*A closing statement so the reader knows you are finished

Which of the following sentences from the section "Ratings For Video Games" BEST explains why video game companies created ratings for their games? (A) People were angry that children played this game. (B) The company stopped making the game. (C) By the early 1990s, Congress discussed having the government regulate video games. (D) Most of the games have ratings for children older than 10 or teens. Which selection from the article BEST gives the reader an idea of the kind of violence included in video games? More than half of the most popular video games contain violence. They show harmful actions toward (A) others. (B) In this game, players drove over "gremlins" to kill them. The creatures looked like stick-figure humans. (C) Certain video games have been blamed for school shootings, bullying and harm to women. (D) Some games are simulations. This means acting like a character in a certain setting. What did video game companies and lawmakers in California DISAGREE about? (A) whether it's OK for adults to play violent video games whether video games cause violence in children (B) (C) the mislabeled ratings on video games (D) the role of the Supreme Court in deciding about video games Which of these statements would the American Psychological Association be MOST likely to agree with? (A) Violent crimes are directly connected to the use of video games. (B) The state should have the right to make laws to protect children. (C) Video games might lead to violent behavior, but more proof is needed. (D) Since there hasn't been an increase in crimes, that proves video games are safe.

2

Aubrey has saved some money for her trip to France. She has \$8,547.

- 1. Put \$8,547 into expanded form. Show and/or explain your answer.
- 2. What place is the 8 in? Show and/or explain your answer.
- 3. What is the value of the 5? Show and/or explain your answer.
- 4. Jill has saved up \$7,498. How much more does Aubrey have than Jill? Show and/or explain your answer.

# Burns AMI Day 2

### Objectives: (3 of 3 listed)

- 1. Multiply a 3-digit whole number by a 2-digit whole number
- 13. Determine the decimal number through thousandths when given its expanded form
- 16. Compare two decimal numbers through thousandths represented in expanded form
- 1. What is the standard form of 6 + 0.5 + 0.02 + 0.004?
  - [A] 6.254
- [B] 6.542
- [C] 6.425
- [D] 6.524
- 2. Compare the two decimals given in expanded form. Use <, >, or =. 1+0.2+0.03+0.003  $\bigcirc$  1+0.5+0.07+0.002
- [A] < [B] > [C] =
- 3. Compare the two decimals given in expanded form. Use <, >, or =. 3+0.9+0.01+0.008  $\bigcirc$  3+0.01
- [A] < [B] > [C] =
- 4. Compare the two decimals given in expanded form. Use <, >, or =. 3+0.6+0.04  $\bigcirc$  3+0.8+0.02 ;
- [A] < [B] > [C] =

- 5. 879 × 47
- [A] 42,313
- [B] 42,413
- [C] 41,413
- [D] 41,313

- 6. 342 × 92 =
- [A] 32,464
- [B] 31,464
- [C] 32,564
- [D] 31,564

- 7. 862
- [A] 15,516
- [B] 16,516
- [C] 15,616
- [D] 16,616

- × 18
- 8. What decimal number can be written as 4 + 0.03 + 0.007?
  - [A] 4.073
- [B] 4.307
- [C] 40.73
- [D] 4.037

- 9. What is the standard form of 8 + 0.2 + 0.07 + 0.009?
  - [A] 8.279
- [B] 8.297
- [C] 8.972<sub>s</sub>
- [D] 8.729

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AMI	Day	3

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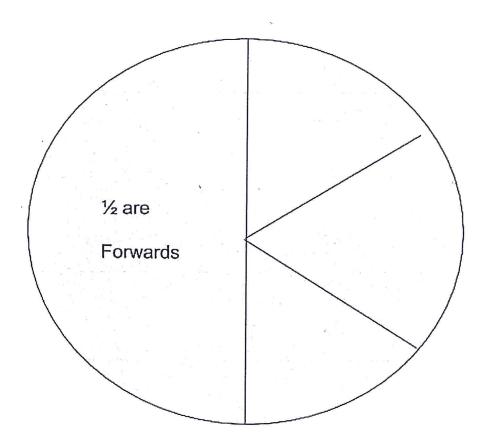
Strategy: Working backwards.

River's soccer team is having a great season. The team is being coached by River's mom, who divided the team into five groups: ½ the players are forwards. ½ are wings. ½ are halfbacks, 1/12 are fullbacks, and 2 others are goalies. Working backwards with the number 2 (goalies), answer these questions.

How many players are on River's team?

How many are in each group?

You MUST EXPLAIN HOW YOU GOT YOUR ANSWER.



Burns	
AMI day	4

Name: Date:

DRAW THREE WAYS TO SOLVE IT.

12 kids are sharing 9 pizzas. How much does each person get?

Name:

Date:

1. Draw 5 and  $\frac{2}{3}$ . How many thirds is that? Prove your answer.

2. Draw a circle and shade  $\frac{2}{3}$ . Then double shade  $\frac{1}{4}$  of the shaded portion. You are finding  $\frac{1}{4}$  of  $\frac{2}{3}$ . What is your answer?

# Science/Social Studies AMI Instructions

Day 1:

Science Read "Atoms" and answer the questions on the next page.

Social St. Read "The Stamp Act" and answer the Matching questions

on the page.

Day 2:

Science Read "What Is Energy?" and answer the questions on the next

page.

Social St. Read "The Boston Tea Party" and answer the Matching

questions on the page. Do not do the Activity.

Day 3:

Science Read "Properties of Light" and answer the questions on the

next page.

Social St. Read "Lexington and Concord" and answer the Matching and

Fill in the Blank questions on the page.

Day 4:

Science Read "How Matter Changes" and answer the guestions on the

next page.

Social St. Read "The Second Continental Congress" and answer the

Matching questions on the page.

Day 5:

Science Read "What Does a Biologist Do?" and answer the Multiple

Choice questions on the next page.

Social St. Read "The Battle of Bunker Hill" and answer the Matching and

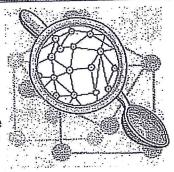
Constructed Response questions on the page.

### **Atoms**

By Cindy Grigg



Look around you; what do you see? Everything- and I do mean <u>everything</u>- you see is made up of matter. Matter is the "stuff" that makes up everything. **Matter** is anything that has mass and takes up space.



- <sup>2</sup> Mass is the measure of how much material makes up the object. Mass is measured in grams. A nickel has the mass of about one gram. Mass is related to how much something weighs. But mass and weight are not the same things.
- Matter has volume. This is just another way of saying that matter takes up space. **Volume** is a measure of how much space something takes up. Volume is measured in liters.
- Even some things you can't see are matter. Air is matter. You can't see air, but you can see things that air moves. Blow on a piece of paper. Watch a tree outside. You will see the paper move and will probably be able to see the leaves blowing on the tree. Moving air caused them to move. You can even touch air. Blow up a balloon. Poke the balloon with your finger. You can feel that something is inside the balloon.
- Things like dreams or ideas are not matter. They are not made of any "stuff." They do not take up space. You can't touch an idea or a dream.
- <sup>6</sup> Collect a group of objects that seem to have nothing in common. For instance, let's say you have a nail, an orange, and a dog. These things don't seem to have anything in common, do they? The dog is alive. The nail and the orange are not alive. The nail is made of metal. The orange came from a tree. They have different colors, sizes, and shapes. But there is one thing that they do have in common: they are made up of atoms.
- All matter is made up of atoms. Atoms are too small to see. **Atoms** are small particles that make up all matter. Two or more atoms can join together. They make larger particles of matter. Two atoms are still too small to be seen. But many of these larger particles can join together to make the matter you see.
- Think about holding a tiny piece of sand in your hand. If you drop the piece of sand on the kitchen floor, it is very hard to find it again. Now think about dropping a whole bucket of sand on the kitchen floor. It would make a large pile of sand. But don't really do that because your mom would not be happy! One piece of sand is like one atom. The bucket of sand is like a group of atoms joined together

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# Atoms

<ol> <li>What is matter?</li> <li>Anything that has mass and takes up space</li> <li>A measure of how much space something takes up</li> <li>The measure of how much material makes up the object</li> </ol>	2. Atoms are:
<ul> <li>3. An element is:</li> <li>A Made of different kinds of atoms</li> <li>B Made of only one kind of atom</li> <li>Not made of atoms</li> </ul>	4. Air is:
5. Dreams and ideas are:  (A) Not matter (B) Matter (C) Atoms	6. Water and salt are different because:
7. All matter is made of:	8. From reading paragraph 9, we could infer (guess) that and are two elements.

# The Stamp Act

It was common in England to raise money by requiring people to buy government stamps for official documents. On March 22, 1765, a similar law went into effect in the colo-

nies. The Stamp Act required colonists to pay for a government stamp on newspapers. pamphlets, playing cards, dice, documents, and legal papers. including marriage licenses.



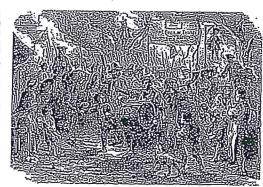
This tax was imposed to raise money to pay the cost for wages and expenses of the 10,000 British soldiers stationed to defend the frontiers against Native American attacks.

Colonists protested that Parliament didn't have the right to tax them because they had no members in Parliament to represent them, a right guaranteed by the British Constitution. Patrick Henry gave a speech against taxation without representation. The Virginia House of Burgesses declared the Stamp Act illegal and passed resolutions saying England had no right to tax people in Virginia.

In October 1765, delegates from nine colonies met in New York. The group, known as the Stamp Act Congress, pledged to resist paying any taxes not approved by their colonial legislatures. Many merchants promised to stop importing British goods. Colonists organized groups like the Sons of Liberty whose members felt strongly about unjust taxes.

Angry crowds met the Stamp Masters when they arrived from England to enforce the law. People rioted, destroyed offices, burned the

stamps, a n d forced many Stamp Masters to resign or leave town. The



Stamp Act caused so much dissension that it was repealed a year later. However, Parliament passed a Declaratory Act, which gave them the right to pass laws in the colonies.

### Matching

- Stamp Act
- 2. Patrick Henry
- 3. Virginia House of Burgesses
  - 4. Stamp Act Congress
- 5. Sons of Liberty

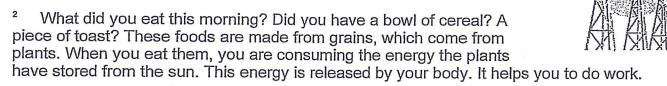
- pledged to resist paying any taxes not approved by their colonial legislatures
- gave a fiery speech against taxes without representation
- declared the Stamp Act illegal and passed resolutions saying England had no right to tax people in Virginia
- required colonists to pay for a government stamp on certain paper documents, playing cards, and dice
- group of colonists who had strong feelings against unjust taxes

## What Is Energy?

By Patti Hutchison



Energy is defined as the ability to do work. Every living thing needs energy. Most of it comes from the sun. Plants are producers. They capture the sun's energy. They use it to grow and reproduce. Any energy that is not used by the plant is stored. Animals are consumers. They eat the plants to get energy for their own life processes. We need energy in order to be able to do anything.



- <sup>3</sup> Solar energy flows through the food chain. The food chain is a diagram that shows how energy from the sun is used by producers. It also shows how this energy is transferred to consumers in an ecosystem.
- There is energy all around us. What do we use it for? We use it to keep warm. We use it to power our vehicles. Did you ever stop to think of where this energy comes from? If you heat with wood, it comes from plants. Even fossil fuels such as gasoline come from decayed plants and animals. Where did they get this energy they are now giving off? You guessed it- from the sun!
- <sup>5</sup> Energy sources are like natural resources. They can be renewable or nonrenewable. Solar energy is, of course, a renewable resource. The sun isn't likely to burn out for billions of years. It will keep sending solar energy our way.
- <sup>6</sup> Energy from plants is also a renewable energy source. Trees are cut for firewood to heat our homes. They can be replanted. If our forests are managed in this way, we will have wood to use as energy for years to come.
- Fossil fuels, on the other hand, took millions of years to form. It would take millions of years for them to form again. These are nonrenewable sources of energy. Some examples are coal, oil, and natural gas.
- There is a scientific law that says that energy cannot be created or destroyed. However, it can change from one form to another. There are two basic types of energy. Energy is either potential or kinetic.
- Potential energy is stored energy. Think of Niagara Falls. The water at the top of the falls has potential energy. Kinetic energy is the energy of motion. As the water falls over the cliff, the energy changes from potential to kinetic.
- Gasoline, made from oil, is stored in a tank below the ground. At this point, it has potential energy. When it is burned in a car engine, it makes the car move. It now has kinetic energy.
- Energy also comes in different "kinds." Some of these include chemical, electrical, mechanical, and nuclear energy. They light our homes. They power our machines and cars. All these different types of energy have one thing in common- they have the ability to do work.

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# What Is Energy?

1.	What is the definition of energy?	2.	Most of Earth's energy comes from:  A Niagara Falls  B The sun  C Automobiles	
3.	What is a food chain?	4.	Resources such as solar energy and wood are called:  A Renewable  B Fossil fuels  C Nonrenewable	
5.	Resources such as oil, natural gas, and coal are:  A Nuclear energy B Nonrenewable C Renewable	6.	Name the two types of energy.	

# INITTHREE: REVOLUTION & CONSTITUTION

# The Boston Tea Party

The British East India Company controlled the tea trade between India, Great Britain, and her colonies. By 1773, this company had a surplus of over 18 million pounds of tea. The tax on tea and the boycotts of British products by colonists had hurt the company.

On May 10, 1773, Parliament passed the Tea Act. The law gave a monopoly on tea to the East India Company. A monopoly is complete control over a product or service. Only the East India Company could import tea into the colonies. The law also permitted the East India Company to sell tea directly to the colonies through its own agents. Rather than raising the tax on tea, the Tea Act actually lowered it. By lowering the price, it was hoped that the colonists would buy more tea.

It would seem that any law that lowered taxes would be welcomed by the colonists, but that wasn't the case. The first to protest were colonial merchants who had been making money importing tea (sometimes legally, sometimes by smuggling). Other merchants joined the protest. They feared that if Parlia-

ment could grant a monopoly on tea to one company, it might grant monopolies on other products also, putting them out of business. Merchants also stirred up the colonial radicals by claiming this was simply another sneaky way for England to tax the colonists. As a result, crowds rioted in protest.

In December 1773, three British ships carrying East India tea anchored in Boston Harbor. The colonists refused to let the tea come ashore, and the ships refused to leave without unloading. Several thousand colonists complained to the governor, but he refused to listen. In protest of the Tea Tax, about 150 members of the Sons of Liberty disguised

as Native Americans dumped 340 chests of tea into Boston Harbor on the night of December 16, 1773. This later became known as the Boston Tea Party.

2. Today's price for a pound of tea: \_\_

### Did You Know?

There was another "tea party" in the colonies. At the Yorktown Tea Party on November 17, 1774, two half-chests of tea were thrown into the York River.

			The state of the s
Matching			
2. 3. 4.	East India Company Tea Act monopoly Sons of Liberty Boston Tea Party	b. c. d.	complete control over a product or service protested against the Tea Tax tea dumped in Boston Harbor by Sons of Liberty gave a monopoly on tea to the East India Co. controlled the tea trade between India, Great Britain, and her colonies
Activity Directions much the	s: The colonial tax on tea an sales tax is where you live. Co	noui	nted to about three cents a pound. Find out how are the tax colonists paid on a pound of tea to the

amount you would pay today on a pound of tea.

Sales tax on one pound of tea today: \_

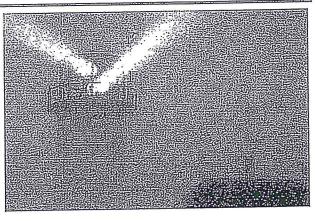
Today's sales tax:

### **Properties of Light**

By Cindy Grigg



- Light is one form of energy that travels in electromagnetic waves. This energy is both magnetic and electrical.
- There are many different types of electromagnetic (EM) waves. Most of them cannot be seen by humans. Our eyes see only a small portion of EM waves called visible light. Visible light is made up of different colors. The colors are red, orange, yellow, green, blue, indigo, and violet. The colors are due to the different wavelengths of light. The longer the wavelength, the less energy the



wave has. The shorter the wavelength, the more energy it has. The longest wavelength of visible light looks red to us. The shortest wavelength of visible light looks violet to us.

- <sup>3</sup> Here are some properties of light:
- <sup>4</sup> Light travels out in all directions from its source. What are some sources of light? The sun is our main source of light on Earth. Some other sources are other stars and fire.
- Light is made of little particles called photons. A photon is the smallest possible particle of electromagnetic radiation. These particles travel in waves.
- <sup>6</sup> Light travels in straight lines called rays.
- Light travels "at the speed of light." This speed is about 186,000 miles per second (670 million miles per hour), or about 300,000 kilometers per second. The speed of light is sort of a galactic "speed limit." So far, nothing has been found that can travel faster than light.
- Light can travel in a vacuum. A vacuum is empty space. There are no molecules of air or anything else in a vacuum. Like all forms of electromagnetic waves, light can travel through empty space, as well as through matter.
- Light can be absorbed. Absorbed light energy is converted into some other form, such as thermal or heat energy. You can test this by putting a piece of black construction paper and a piece of white construction paper on a sunny windowsill. Place a thermometer for measuring outdoor or room temperature under each piece of paper. Wait a few hours, and then check the two temperatures. The thermometer underneath the black paper should be hotter than the one under the white paper. This is the reason people tend to wear dark colors in the wintertime and white or light colors in the summer. Dark colors absorb light, helping us keep warmer in the winter. In the summer, light colors absorb little of the sun's energy, keeping us cooler.
- Light can be reflected. If you shine light on a surface, some of that light will bounce off, or be reflected by, the surface. The *law of reflection* tells us that light will always be reflected by a surface at the same angle at which it hits the surface.
- Light can be refracted. Light always travels in straight lines. But when it passes from one medium into another, it changes direction slightly. Refraction occurs because light travels at

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# **Properties of Light**

1.	What is the smallest possible piece of electromagnetic radiation?  (A) Waves (B) Photons (C) Rays	2. How does light travel?  A In straight lines B In rays C In waves All of the above	•••••
3.	What is the speed of light?  About 186,000 miles per second  B All of the above are correct  C About 670 million miles per hour  D About 300,000 kilometers per second	4. Light cannot be absorbed.  A False B True	
5.	Light can be reflected.  A False  B True	<ul><li>6. Light can be transmitted through matter.</li><li>A False</li><li>B True</li></ul>	•
7.	These materials allow light to be transmitted through them easily.  Transparent  Dopaque  Translucent	<ul> <li>8. Something that transmits some, but not all, of the light that hits it is called:</li> <li>A Opaque</li> <li>B Translucent</li> <li>C Transparent</li> </ul>	

Name:

Date:

# Lexington and Concord

On the night of April 18, 1775, colonists in Boston learned the British planned to arrest Samuel Adams and John Hancock and raid the supply depot in Concord. The Boston Committee of Correspondence sent riders to warn Adams and Hancock and to alert the militia at Concord of the surprise attack.

When the 600 British soldiers reached Lexington, they found about 80 armed men commanded by Captain Jonas Parker waiting on the village green. The colonists were ordered to put down their weapons and leave. Realizing they were badly outnumbered, Parker ordered his men to disperse, but not to give up their weapons. Suddenly, someone fired a shot. No one knows whether that first shot was fired by a British or colonial soldier. The first shot fired at Lexington has been called "the shot heard round the world."

The warning from Prescott gave the people at Concord time to move their weapons and ammunition to safety. News from Lexington

arrived before the British. About 400 armed colonials waited for them at a bridge outside Concord. After a short battle, the British commander decided to retreat. The troops began marching back to Boston, a distance of about 16 miles.

At first, the retreat was calm and orderly. Suddenly, musket fire erupted from the woods along the road. Militia units from Lexington, Concord, and other cities had prepared an ambush. The orderly march turned into a rout: Nearly 300 British soldiers were killed or wounded. Only the arrival of reinforcements saved them from complete disaster as they continued their hasty retreat to Boston.

Although there had been skirmishes before, Lexington and Concord were considered the first battles of the Revolutionary War. The victory boosted the morale of the colonists. Although they had not yet declared their independence, the Revolutionary War had begun.

	-	The state of the s		
Mat	ching			
	1.	rout	a.	war between the American colonies and Britain
2	2.	militia,.	b.	armed colonists
-	3.	Revolutionary War	C.	disorderly, hasty retreat
Fill in the Blanks				
1.	The fi	rst shot fired at		has been called "the shot heard 'round the
	world	33		
	The E	Boston		ofsent riders to warn
, , ,	Adam	s and Hancock and to ale	rt the m	ilitia at Concord of the surprise attack by the British
	Regu	lars.		
3.		and		were considered the first battles
	of the	Revolutionary War		•
4.	When	600 British soldiers reach	ed Lexi	ngton, they found about 80 armed men commanded
	by			waiting on the village green.

### **How Matter Changes**

By Cindy Grigg



- Changes in matter happen around you every day. Some changes make matter look different. Other changes make one kind of matter become another kind of matter.
- When you scrunch a sheet of paper up into a ball, it is still paper. It only changed shape. You can cut a large, rectangular piece of paper into many small triangles. It changed shape and size, but it is still paper. These kinds of changes are called physical changes.



- Physical changes are changes in the way matter looks. Changes in size and shape, like the changes in the cut pieces of paper, are physical changes. Physical changes are changes in the size, shape, state, or appearance of matter.
- Another kind of physical change happens when matter changes from one state to another state. When water freezes and makes ice, it is still water. It has only changed its state of matter from a liquid to a solid. It has changed its appearance and shape, but it is still water. You can change the ice back into water by letting it melt. Matter looks different when it changes states, but it stays the same kind of matter.
- Solids like ice can change into liquids. Heat speeds up the moving particles in ice. The particles move apart. Heat melts ice and changes it to liquid water. Metals can be changed from a solid to a liquid state also. Metals must be heated to a high temperature to melt. Melting is changing from a solid state to a liquid state.
- Ice melts at 0 degrees Celsius or 32 degrees Fahrenheit. This is the melting point (or freezing point) of water. If the temperature goes above this temperature, the ice will melt. Heat speeds up the moving particles in ice. If the temperature goes below this temperature, water will freeze. At colder temperatures, the moving particles slow down.
- You have probably seen a puddle of water that disappears after a time. The water in the puddle changed into a gas. Matter evaporates when it changes from a liquid to a gas. Water in the form of gas is called water vapor.
- Water changes quickly into a gas when water is heated to a temperature of 100 degrees Celsius or 212 degrees Fahrenheit. This temperature is the boiling point of water. Heat makes water particles move fast.
- Cooling air causes water vapor to change to a liquid. Matter condenses when it changes from a gas to a liquid.
- Have you ever had a glass of lemonade with ice on a hot summer day? Did you notice the water that beaded up on the outside of the glass? The cold glass cooled the air around it. Then water vapor in the air condensed to small drops of water on the outside of the glass.
- Another way matter can change is a chemical change. A chemical change takes place

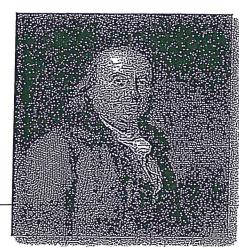


Date	

# **How Matter Changes**

1.	A physical change is a change in the:	2.	Changing from a solid state to a liquid state is called:  A Melting  B Freezing
3.	What is the melting point of ice?  100 degrees Celsius  32 degrees Fahrenheit  212 degrees Fahrenheit	4.	What is the freezing point of water?  100 degrees Celsius  32 degrees Fahrenheit  212 degrees Fahrenheit
5.	When a liquid changes to a gas, we say it:  Evaporates  Freezes  Condenses	6.	When a gas changes to a liquid, we say it:  A Freezes Condenses C Evaporates
7.	What kind of change happens when matter changes into a different kind of matter?  A Change in states of matter  B Chemical change  C Physical change	8.	Give two examples of a chemical change.
9.	Which of these is <u>not</u> a sign that a chemical change has happened?  Change in color  Bubbling  Change in state of matter		

# The Second Continental Congress Meets



Benjamin Franklin

After the battles at Lexington and Concord in April 1775, an informal state of war existed between Great Britain and the colonies. Under the joint command of Ethan Allen and Benedict

Arnold, colonial forces captured Fort Ticonderoga. Colonial soldiers also surrounded Boston, keeping British General Gage and his soldiers confined to that area.

Representatives from all 13 colonies hurried to Philadelphia where the Second Continental Congress met on May 10, 1775. Patrick Henry and Sam Adams wanted to declare independence immediately, seize British officials, and send for help from France and Spain.

Not everyone in the colonies wanted to go to war against Great Britain, however. For example, even though Benjamin Franklin helped write the Declaration of Independence, his son, William, remained loyal to England.

Even after the Declaration of Independence was signed in 1776, announcing to the world that the colonies were independent states and no longer ruled by Britain, opinion—was divided. About a third-of-the colonists, called Patriots, wanted independence. Another third were Loyalists who did not want to rebel against Britain. The last third were "fence sitters"—people who hadn't made up their minds either way.

The majority of the representatives hoped to avoid war. They sent a message to the king saying they didn't plan to separate from Great Britain, but if the British continued to use force, they would resist with force.

### Think About It

Why do you think the term "fence sitter" was used to describe colonists who hadn't made up their minds about independence?

### Matching

- \_\_\_\_\_ 1. fence sitters
- \_\_\_\_ 2. Declaration of Independence
  - 3. Patriots
- 4. Second Continental Congress
- \_\_\_\_ 5. Loyalists

- a. announced the colonies were independent states
- colonists who did not want to rebel against Britain
- c. meeting of representatives from all 13 colonies

- d. colonists who had not made up their minds about independence
- e. colonists who wanted independence

# What Does a Biologist Do?

By Cindy Grigg



- Is science your favorite subject in school? Are you wondering what kinds of jobs there are in the field of science? One type of career in the science field is that of a biologist. A biologist studies living things and their environments, or the world around them, and how living things affect and are affected by their environment. The area where something lives and its environment is called a habitat.
- When biologists talk about living things, they mean much more than just animals. Biologists study everything from algae, to one-celled animals like amoebas, to slime molds, to plants, to invertebrate animals, to mammals. Every living thing lives in an environment, or habitat, that is suited to the way the organism lives. There are lots of different kinds of living organisms because there are lots of different kinds of environments.
- Some biologists study one type of environment and all the different living things that make up that habitat. For example, a marine biologist studies plants and animals that live in the ocean. Some biologists study just humans and their environments. Some cell biologists study cells which are the smallest part of a living thing. Cell biologists study the way cells are made, the parts that make up a cell, the way these parts all work together and interact with their surroundings, and the cell's life cycle. The study of cell biology has led to an understanding of human tumors and maybe someday will help scientists find a cure for cancer.
- Some biologists might work in zoos or aquariums. They keep the animals healthy and design habitats that are best suited to each animal. They educate the public about how to protect animals in the wild. They also work to protect endangered animals from extinction. If one kind of animal becomes extinct, then we have lost it forever.
- Some forensic biologists work with police to discover evidence that can be used to solve crimes. They find and identify finger prints, blood, and DNA. DNA is something found in each cell that can be used to identify individuals. Each person's DNA is different from every other person's.
- Many biologists work in health professions. Doctors, nurses, and lab technicians all must have a good understanding of biology. Some doctors study infectious diseases and try to find ways to keep people from getting sick. Sometimes biologists find a vaccine so that we can just get a shot and not have to worry about getting a disease. Sometimes biologists find ways to make the diseases we do get less dangerous to us.
- Biologists may study cells under a microscope, insects in a rainforest, snakes in a desert, viruses that affect humans, plants in a greenhouse, or endangered animals around the world. Biologists help us by teaching us about human health, environmental threats, and meeting humans' increasing needs for more food supplies. If you like working with people, animals, or cells, being a biologist might be just the right career for you!

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# What Does a Biologist Do?

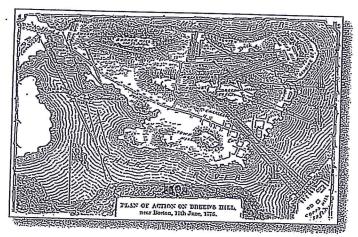
1.	What does a biologist study?  People B Plants C Environments D All of the above	2.	What is a habitat?  A kind of animal  B A branch of science  The area where something lives and its environment  D A habit that you keep doing over and over
3.	A marine biologist studies  A Mammals B Food C Men in the army D Plants and animals that live in the ocean	4.	Cells are  The smallest part of a living thing  Small animals  Telephones  Small plants
5.	Extinction is		What is DNA?      Something found in each cell     Used to solve crimes     Used to identify individuals     All of the above
7.	Biologists study plants and animals.  (A) False (B) True	8.	Doctors and nurses must know biology.  (A) False (B) True

### Name: \_

# The Battle of Bunker Hill

The Second Continental Congress appointed **George Washington** as commander in chief of the Continental Army. If they did go to war, they would need an experienced soldier in charge.

Before Washington reached the main army, General Gage decided to try to break out of Boston by force and teach the colonists a lesson. Hearing of the plan, the American commanders were ordered to fortify Bunker Hill on the north side of the city. They made



a mistake and dug trenches on Breed's Hill, a smaller hill closer to the waterfront.

Did You Know?
The battle known as Bunker Hill actually took place on Breed's Hill.

The colonists were able to stop the first two attempts by the British to take Breed's Hill, but were forced to flee when troops charged the hill a third time and the colonists ran out of ammunition. Although technically they lost, the battle at Breed's Hill convinced many colonists they could beat the British easily.

The king ordered a naval blockage on all the colonies to prevent colonists from receiving supplies. He proclaimed that all the colonies were rebels. Members of the Second Continental Congress recognized that peace with Great Britain might no longer be possible. They sent ambassadors to France, Spain, and the Netherlands to request aid.

### Matching

- \_\_\_\_\_ 1. George Washington
  - 2. Battle of Bunker Hill
  - 3. naval blockade
  - 4. ambassador

- a. using ships to cut off supplies and trade to the colonies
- b. representative from one country to another
- c. really the Battle of Breed's Hill
- d. commander in chief of the Continental Army

### Constructed Response

Explain why many colonists were convinced they had beaten the British Army at the Battle of Bunker Hill (Breed's Hill). Give specific details or examples to support your answer.

# IMAGINATION WORKOUT

Use your imagination to create a picture out of the shapes and lines

