

WORD STUDY | LESSON 10

Prefixes

Directions: Review the prefixes and their meanings in the chart. Then, read each incomplete word and the definition that follows. Write the correct prefix to complete the word.

PREFIX	MEANING
ante-	before
anti-	against; opposed to
inter-	between; among
over-	above

1.		_ mingle (to mix or mingle between)
2.		_virus (software designed to work against a virus)
3.		_work (to work above what is expected)
4.		_date (to come before something in date)
5.		_social (against or opposed to being social with others)
6.		_achiever (one who achieves success above what is
	expected)	

FLUENCY LESSON 10



Isaac Newton

Sir Isaac Newton and Gravity

Sir Isaac Newton was a British scientist who lived from 1643 until 1727. He is considered one of the greatest minds in human history. His father died before he was born, and his mother left him in the care of his maternal grandmother. It was obvious early in his life that he was a child prodigy; when his mother returned during his teen years and tried to make him become a farmer, he refused. He never married because his life was consumed by the pursuit of knowledge.

Much has been written about Newton's discovery of gravity. He didn't actually discover it, of course. He didn't even create the word; the term gravity antecedes his birth by about 140 years. But beginning in 1666, Newton researched and uncovered the definite, predictable ways in which gravity works.

You may have heard the legend about Newton sitting under an apple tree. As the story goes, an apple fell on Newton's head and inspired him to come up with the Universal Law of Gravitation. That tale is almost certainly untrue. Newton himself claimed that he began working on his Law after seeing an apple fall from a tree when he looked out his window. However, historians think even that story was a bit of a fib.

Still, there is no denying that Newton's Universal Law of Gravity was a milestone in scientific thought. Newton realized that if gravity reached as far as the highest mountains, it might reach even further. He also noticed that not only do things fall, they accelerate as they do so. Perhaps most impressively, Newton discovered that not just planets exert gravity; every solid object in the universe has it. In other words, when the ground pulls down an apple, the apple pulls too! Newton also proved that gravity is responsible for the way the moon orbits the Earth and the ways that all the planets, moons, and other objects orbit the Sun.

In addition, Newton made groundbreaking discoveries about earthly motion and the nature of light. All throughout his life, he remained humble about his accomplishments, once telling a friend, "If I have seen further, it is only by standing on the shoulders of giants."

Great efforts have been taken over the centuries to preserve Newton's original writings. Today they are stored in the archives of Cambridge University, in Cambridge, England.



COMPREHENSION | LESSON 10

Nonfiction Text: Central Idea and Supporting Details

Directions: Refer to the passage "Sir Isaac Newton and Gravity" as you complete this page. Write your answers in complete sentences.

1.	Explain how you know that this text is nonfiction.
2.	What is the central idea of this passage?
_ 3.	What are some supporting details in this passage?
_	
_	
_	

VOCABULARY | LESSON 10



Content Vocabulary

Directions: Read the vocabulary words. Then, find each word in the Glossary and write its definition.

1.	bickering
2.	planetary
_	
3.	orchard
_	
4.	accelerate
_	
5.	tension
6.	universal



LEARNING LOG | LESSON 10

Learning Log

Directions: Think about today's session. How do you feel about your Word Study skills? Write your ideas on the lines below. Make sure you begin each sentence with a capital letter and end each sentence with a punctuation mark.

WORD STUDY | LESSON 11



Prefixes

Directions: Underline the prefix in each word below. Then, use the words to complete the sentences.

	international	antibiotic	oversimplify
	anterior	antif	reeze
1.	Something that isthe front.		is situated before or toward
2.	Twenty students from our scl	_	
3.	It is important to put works against cold temperate		in your car because it
4.	Our teacher tends tointroduces them.		concepts when he
5.	Are you taking aninfection?		to help fight against your

FLUENCY LESSON 11

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COMPREHENSION | LESSON 11



Fiction: Plot

Directions: Refer to the passage "How Newton Discovered Gravity" as you complete this page. Write your answers in complete sentences.

1.	Explain how you know that this text is fiction.
_	
2.	Write about the plot of this passage.
_	



VOCABULARY | LESSON 11

Content Vocabulary

Directions: Write the vocabulary word that matches each definition.

	bickering	orchard	accelerate	universal
1.	applicable or	relevant in all cases		
2.	a piece of la	nd planted with fruit tree	S	
3.	arguing abou	ut trivial matters		_
4.	increase spe	ed		
Dire	ections: Com	plete each analogy with	one of the following voc	abulary words.
		planetary	tension	
1.	peaceful is to	o <u>calm</u> as <u>stress</u> is to		
2	monetary is	to money as	is	to planet

LEARNING LOG | LESSON 11



Learning Log

	•		'	punctuation n
·		 		
<u> </u>		 		



WORD STUDY | LESSON 12

Syllabication

Directions: Divide the following words into syllables, and write the number of syllables in the chart. Then, read each word.

WORD	NUMBER OF SYLLABLES
interim	
antecede	
overburdened	
antifreeze	
interjecting	
antebellum	
overpaid	
antiseptic	



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COMPREHENSION | LESSON 12

Compare and Contrast: Your Turn to Write

Directions: Write a paragraph in which you state similarities and differences between the passages "Sir Isaac Newton and Gravity" and "How Newton Discovered Gravity." Include at least two similarities and two differences in your paragraph. Make sure you begin each sentence with a capital letter and end each sentence with a punctuation mark. Check your spelling when you are finished writing.	





Content Vocabulary Review

Directions: Write a sentence for each vocabulary word. Each sentence should reflect details from the passage "How Newton Discovered Gravity."

1.	bickering
_	
2.	planetary
3.	orchard
4.	tension
5.	universal
Dire	ections: Write an analogy for the vocabulary word accelerate.



LEARNING LOG | LESSON 12

Learning Log

Directions: Think about today's session. How do you feel about your accomplishments? Write your ideas on the lines below. Make sure you begin ea sentence with a capital letter and end each sentence with a punctuation mark.