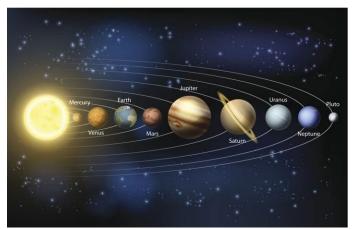
042724 G3 U6 EOU

Grade	3
Unit/Domain	Astronomy: Our Solar System and Beyond
Copyright (Original or Public Domain)	Original: • What is a Planet? - NASA Science • In Depth Pluto – NASA Solar System Exploration • Pluto: The First Dwarf Planet - NASA • Pluto & Dwarf Planets - NASA Science • Pluto Discovery Telescope - Lowell Observatory • History of Pluto - Lowell Observatory • https://spaceplace.nasa.gov/planet-what-is/en/
Lexile/Average Grade Level	Unavailable at this time
Flesch Kincaid	8.5
Word Count	516
Title	Once Upon a Planet
Author	NASA Space Place, adapted for OER K-5 RLA



 $\frac{https://www.istockphoto.com/vector/sun-and-planets-of-the-solar-system-}{gm51227563147204046}$

Once Upon a Planet

(1) We live on a giant sphere of rock, water, and gas called Earth. Earth is one of many planets in our solar system. The solar system includes planets and other objects that orbit a star called the sun.

(2) In 2006, scientists came up with a definition for *planet*. First, a planet must orbit a star. Second, it must be round or mostly round. Third, it must be big enough and have enough gravity to keep other large bodies out of its orbit. Our solar system has eight planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune. It also has one dwarf planet, Pluto.

Historical Discoveries

(3) Even before Pluto was discovered, it was thought to be a planet. Throughout history, new planets were discovered by studying the orbits of known planets. Irregular orbits provide a clue that the gravity of an unknown planet is pulling the known planet. In 1846, astronomers discovered our eighth planet, Neptune that way. Then, when astronomers studied the orbit of Neptune, they observed another irregular pattern. Based on these observations, they hypothesized the existence of a ninth planet and called it "Planet X." The hunt was on!



Caption: Pluto Discovery Telescope

https://lowell.edu/wp-content/uploads/2015/02/pluto.jpg

(4) "Planet X" was discovered by American astronomer Clyde W. Tombaugh in 1930, at the Lowell Observatory in Arizona. The new object was named Pluto and labeled as our ninth planet. There was excitement about the discovery in the United States because it was the first planet to be discovered by an American. Today, you can visit the Lowell Observatory and see the "Pluto Discovery Telescope" because it is an historical artifact.

New Discoveries

- (5) Pluto turned out to be much smaller than expected. Since the 1930's, the technology that astronomers use to study the solar system has improved. With more powerful telescopes and other technology, astronomers can detect smaller and smaller objects. In the 1990's, they discovered objects similar in size to Pluto in the solar system nearby. This brought Pluto's planetary status officially in question. What did astronomers do next?
- (6) Do you remember the definition of a planet? First, a planet must orbit a star. Check: Pluto orbits the Sun. Second, a planet must be round or mostly round. Check: Pluto is mostly round. Third, a planet must be big enough for its gravity to have cleared away other objects of similar size in its orbit. No check: Pluto has not cleared its orbit of objects. While astronomers voted on a definition for "planet," they also created a new category of objects—dwarf planets. Dwarf planets orbit a star, are nearly round, and have not cleared their orbits of objects. Pluto is one of five recognized dwarf planets, but that number may increase. Will you be the next astronomer to discover a dwarf planet?
- (7) Our understanding of the solar system will continue to change over time. Advances in technology allow astronomers to observe smaller and more distant objects. New information gives rise to new ideas. Pluto's reclassification shows how new information can mean new understanding and how we are always learning new things.

Item #	1
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEK 3.9.D.i
	Multiple genres: listening, speaking, reading, writing, and thinking using multiple textsgenres. The student
	recognizes and analyzes genre-specific characteristics,
	structures, and purposes within and across increasingly
	complex traditional, contemporary, classical, and diverse
	texts. The student is
	expected to: (D) recognize characteristics and structures of
	informational text, including: (i) the central idea with
	supporting
	evidence.
Objective	Students will identify the central idea of a passage.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	What is the central idea of the article?
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	Scientists reclassified Pluto as a dwarf planet because it did
	not meet all three criteria to be considered a planet.
answer_b	Scientists worked together to develop a definition of a planet.
answer_c	Clyde W. Tombaugh first discovered Pluto in 1930 at the
	Lowell Observatory in Arizona.
answer_d	Since first discovered in the 1930s, Pluto has been observed
	and studied with increasingly advanced technology.

correct_answer	а
correct_answer_rationale	The passage provides information about the history and discovery of planets in our solar system. It explains the criteria for a celestial body to be considered a planet and explains why Pluto does not meet one of the criteria.
incorrect_answer_1	b
incorrect_answer_rationale_1	This is a detail in the passage but not the central idea.
incorrect_answer_2	С
incorrect_answer_rationale2	This is a detail in the passage but not the central idea.
incorrect_answer_3	d
incorrect_answer_rationale3	This is a detail in the passage but not the central idea.
scoring	Exact match; 1 point

Item#	2
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.6.G
	Comprehension skills: listening, speaking, reading, writing, and
	thinking using multiple texts. The student uses metacognitive
	skills to both develop and deepen comprehension of
	increasingly complex texts. The student is expected to: (G)
	evaluate details read to determine key ideas.
Objective	Students will evaluate details read to determine key ideas.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	Which sentence from the passage supports the key idea that
	advancements in technology called Pluto's planetary status
	into question?
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	"Planet X" was discovered by American astronomer Clyde W.
	Tombaugh in 1930 at the Lowell Observatory in Arizona.
	(paragraph 4)
answer_b	Today, you can visit the Lowell Observatory and see the "Pluto
	Discovery Telescope" because it is an historical artifact.
	(paragraph 4)
answer_c	With more powerful telescopes and other technology,
	astronomers can detect smaller and smaller objects. In the
	1990's, they discovered objects similar in size to Pluto in the
	solar system nearby. (paragraph 5)
answer_d	Third, a planet must be big enough for its gravity to have
	cleared away other objects of similar size in its orbit.
	(paragraph 6)

correct_answer	С
correct_answer_rationale	This detail supports the key idea that advancements in technology brought Pluto's planetary status into question.
incorrect_answer_1	a
incorrect_answer_rationale1	This is a fact from the passage but does not support the key idea.
incorrect_answer_2	b
incorrect_answer_rationale2	This is a fact from the passage but does not support the key idea.
incorrect_answer_3	d
incorrect_answer_rationale3	This is a fact from the passage but does not support the key idea.
scoring	Exact match; 1 point

Item #	3
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
Standard	TEKS 3.6.G
	Comprehension skills: listening, speaking, reading, writing,
	and thinking using multiple texts. The student uses
	metacognitive skills to both develop and deepen
	comprehension of increasingly complex texts. The student
	is expected to: (G) evaluate details read to determine key
	ideas.
Objective	Students will evaluate details read to determine a key idea.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	Which sentence from the passage supports the key idea
	that scientists will continue to make new discoveries about
	our solar system?
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	Irregular orbits provide a clue that the gravity of an
	unknown planet is pulling the known planet. (paragraph 3)
answer_b	There was excitement about the discovery in the United
	States because it was the first planet to be discovered by
	an American. (paragraph 4)
answer_c	In the 1990s, they discovered objects similar in size to Pluto
	in the solar system nearby. (paragraph 5)
answer_d	Will you be the next astronomer to discover a dwarf
	planet? (paragraph 6)

correct_answer	d
correct_answer_rationale	This detail supports the idea that scientists will continue
	to make new discoveries about our solar system.
incorrect_answer_1	a
incorrect	This detail explains how scientists first recognize planets.
answer_rationale_1	
incorrect_answer_2	b
incorrect_answer_rationale_2	This detail supports the idea that new discoveries are
	exciting.
incorrect_answer_3	С
incorrect_answer_rationale_3	This detail supports the idea that scientists have made
	many discoveries over the years.
scoring	Exact match; 1 point

Item #	4
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.9.D.iii
	Multiple genres: listening, speaking, reading, writing, and
	thinking using multiple textsgenres. The student recognizes and
	analyzes genre-specific characteristics, structures, and purposes
	within and across increasingly complex traditional,
	contemporary, classical, and diverse texts. The student is
	expected to: (D) recognize characteristics and structures of
	informational text, including: (iii) organizational patterns such as
	cause and effect and problem and solution.
Objective	Students will recognize the organizational pattern of the passage.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	The author organizes the article "Once Upon a Planet" by –
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	presenting the problem and describing a solution
answer_b	identifying causes and effects
answer_c	telling events in sequential order
answer_d	describing planets and the information scientists know about
	them

correct_answer	С
correct_answer_rationale	The passage provides the history of discovering planets in our
	solar system, including Pluto's reclassification.
incorrect_answer_1	а
incorrect_answer_rationale_1	The passage does not use a problem-and-solution
	organizational pattern.
incorrect_answer_2	b
incorrect_answer_rationale_2	The passage does not use a cause-and-effect organizational
	pattern.
incorrect_answer_3	d
incorrect_answer_rationale_3	Although descriptions are included in the passage, the
	passage is organized sequentially.
scoring	Exact match; 1 point

Item #	5
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.9.D.iii
	Multiple genres: listening, speaking, reading, writing, and
	thinking using multiple textsgenres. The student
	recognizes and analyzes genre-specific characteristics,
	structures, and purposes within and across increasingly
	complex traditional, contemporary, classical, and diverse
	texts. The student is expected to: (D) recognize
	characteristics and structures of informational text,
	including: (iii) features such as sections, tables, graphs,
	timelines, bullets, numbers, and bold and italicized font to
	support understanding.
Objective	Students will recognize text features to support
	understanding.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	Which text feature helps the reader understand the location
	of Pluto in the solar system?
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	The introduction
answer_b	The illustration of the planets
answer_c	The photo of the telescopes
answer_d	The caption underneath the illustration

correct_answer	b
correct_answer_rationale	The illustration shows the location of celestial bodies in the
	solar system.
incorrect_answer_1	а
incorrect_answer_rationale_1	The introduction helps the reader gain an understanding of
	the topic of the article.
incorrect_answer_2	b
incorrect_answer_rationale_2	The photo shows the Pluto Discovery Telescope.
incorrect_answer_3	d
incorrect_answer_rationale_3	The caption identifies the object in the photograph, which is
	the telescope.
scoring	Exact match; 1 point

Item #	6
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.11.D.x
	Composition: listening, speaking, reading, writing, and thinking using multiple textswriting process. The student uses the writing process recursively to compose multiple texts that are legible and uses appropriate conventions. The student is expected to: (D) edit drafts using standard English conventions, including: (x) punctuation marks, including apostrophes in contractions and possessives and commas in compound sentences and items in a series.
Objective	Students will identify the correct punctuation mark for a sentence.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value
stimulus	Refer to the passage "Once Upon a Planet."
question_stem	Read this sentence a student wrote about "Once Upon a Planet."
	A planet first called Planet X is the dwarf planet Pluto!
	What change is needed in the sentence?
prompt	Select the best answer.
randomize_answer_choices	Yes
answer_a	Change <i>planet</i> to Planet
answer_b	Change <i>is</i> to was
answer_c	Change <i>dwarf</i> to drawf
answer_d	Change the exclamation point to a period

correct_answer	d
correct_answer_rationale	The sentence is a statement and should end in a period.
incorrect_answer_1	a
incorrect_answer_rationale_1	The word "planet" is a common noun and should not be
	capitalized.
incorrect_answer_2	b
incorrect_answer_rationale_2	There is no verb tense error
incorrect_answer_3	d
incorrect_answer_rationale_3	There is no spelling error in the word dwarf
scoring	Exact match; 1 point

Item #	7
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.11.D.x
	Composition: listening, speaking, reading, writing, and
	thinking using multiple textswriting process. The student uses
	the writing process recursively to compose multiple texts that
	are legible and uses appropriate conventions. The student is
	expected to: (D) edit drafts using standard English conventions,
	including: (x) punctuation marks, including apostrophes in
	contractions and possessives and commas in compound
	sentences and items in a series.
Objective	Students will identify and use possessives.
DOK Level	2
Question Type	Inline Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value		
stimulus	A student is writing about the passage, "Once Upon a Planet." Choose the correct word for the sentence.		
question_stem	Pluto is located past	A Neptune's B Neptune C Neptunes D Neptunes'	orbit.
prompt	Select the best a	nswer.	
randomize_answer_choices	Yes		
answer_a	Neptune's		
answer_b	Neptune		
answer_c	Neptunes		
answer_d	Neptunes'		

correct_answer	а
correct_answer_rationale	This word correctly shows possession.
incorrect_answer_1	b
incorrect_answer_rationale_1	This is the singular form of the word.
incorrect_answer_2	С
incorrect_answer_rationale2	An apostrophe is needed to show possession.
incorrect_answer_3	d
incorrect_answer_rationale_3	The apostrophe is incorrectly positioned.
scoring	Exact match; 1 point

Item #	8
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.11.D.x
	Composition: listening, speaking, reading, writing, and
	thinking using multiple textswriting process. The student
	uses the writing process recursively to compose multiple
	texts that are legible and uses appropriate conventions. The
	student is expected to: (D) edit drafts using standard
	English conventions, including: (x) punctuation marks,
	including apostrophes in contractions and possessives and
	commas in compound sentences and items in a series.
Objective	Students will use commas in a series correctly.
DOK Level	2
Question Type	Inline Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value	
stimulus	A student is writing about the passage, "Once Upon a	
	Planet." Choose the correct punctuation for the series.	
question_stem	The planets in the diagram include	A Neptune, Uranus, and Saturn.
		B Neptune Uranus and Saturn.
		C Neptune, Uranus, and, Saturn.
		D Neptune, Uranus and
		Saturn,
prompt	Select the best answer.	
randomize_answer_choices	Yes	
answer_a	Neptune, Uranus, and Saturn.	
answer_b	Neptune Uranus and Saturn.	
answer_c	Neptune, Uranus, and, Saturn.	
answer_d	Neptune, Uranus and Saturn.	

correct_answer	а
correct_answer_rationale	Items in a series should be separated by commas.
incorrect_answer_1	b
incorrect_answer_rationale_1	Commas need to separate items in a series.
incorrect_answer_2	С
incorrect_answer_rationale_2	The comma after the word "and" is not needed.
incorrect_answer_3	d
incorrect_answer_rationale_3	A comma is not needed after Saturn but is needed after Uranus.
scoring	Exact match; 1 point

Item #	9
Discipline	ELA
Grade Level	3
Assessment Type	End of Unit
Unit/Domain Title	Astronomy: Our Solar System and Beyond
TEKS	TEKS 3.11.C
	Composition: listening, speaking, reading, writing, and
	thinking using multiple textswriting process. The student
	uses the writing process recursively to compose multiple
	texts that are legible and uses appropriate conventions. The
	student is expected to: (C) revise drafts to improve sentence
	structure and word choice by adding, deleting, combining,
	and rearranging ideas for coherence and clarity.
Objective	Students will combine sentences for coherence and clarity.
DOK Level	2
Question Type	Multiple Choice

Element	Value
passage_link	
passage_title	Once Upon a Planet

Element	Value	
stimulus	Refer to the passage, "Once Upon a Planet."	
question_stem	A student wrote these sentences about "Once Upon a Planet."	
	A telescope can point to a celestial body. A telescope can be	
	used to analyze the size and orbit of the body.	
	What is the best way to revise these sentences?	
prompt	Select the best answer.	
randomize_answer_choices	Yes	
answer_a	A telescope can point to a celestial body and analyze its size	
	and orbit.	
answer_b	A telescope can point to a celestial body, and a telescope can	
	be used to analyze the size and orbit of the body.	
answer_c	A telescope can point to a celestial body, but it can be used to	
	analyze the size and orbit of the body.	
answer_d	A telescope can point to a celestial body and used to analyze	
	it.	

correct_answer	а		
correct_answer_rationale	This revision creates a clear and concise sentence that		
	retains the meaning of the original sentences.		
incorrect_answer_1	b		
Incorrect_answer_rationale_1	Although grammatically correct, this is not the best choice		
	because it does not convey the information in the most		
	concise way.		
incorrect_answer_2	С		
incorrect_answer_rationale_2	The changes to the sentence change the meaning of the		
	sentence.		
incorrect_answer_3	d		
incorrect_answer_rationale_3	This change loses some of the meaning in the original		
	sentences.		
scoring	Exact match; 1 point		

Item#	10			
Discipline	ELA			
Grade Level	3			
Assessment Type	End of Unit			
Unit/Domain Title	Astronomy: Our Solar System and Beyond			
TEKS	TEKS 3.12.B			
	Composition: listening, speaking, reading, writing, and			
	thinking using multiple textsgenres. The student uses genre			
	characteristics and craft to compose multiple texts that are			
	meaningful. The student is expected to: (B) compose			
	informational texts, including brief compositions that convey			
	information about a topic, using a clear central idea and genre			
	characteristics and craft.			
Objective	Students will compose an informational text.			
DOK Level	4			
Question Type	Extended Constructed Response			

Element	Value	
passage_link		
passage_title	Once Upon a Planet	

EXTENDED CONSTRUCTED RESPONSE

Element	Value		
stimulus	Refer to the passage "Once Upon a Planet."		
question_stem	Read the selection "Once Upon a Planet." Based on the information in the article, write a response to the following: Explain how and why Pluto became a dwarf planet. Write a well-organized informational composition that uses specific evidence from the article to support your answer. Remember to — • clearly state your central idea		
	 organize your writing 		
	 develop your ideas in detail 		
	 use evidence from the selection in your response 		
	 use correct spelling, capitalization, punctuation, and 		
	grammar		

	Manage yo	Manage your time carefully so that you can –			
	• rev	review the selection			
	• pla	plan your response			
	• wri	write your response			
	• rev	revise and edit your response			
prompt	Write your	Write your response in the box provided.			
scoring rubric	<u> </u>				
	Points	Content Development			
	3	Central idea is clear and fully developed			
		Organization is effective			
		Evidence is specific, well chosen, and			
		relevant			
		Expression of ideas is clear and effective			
	2	Central idea is present and somewhat			
		developed			
		Organization is limited			
		Evidence is limited and may include some			
		irrelevant information			
		Expression of ideas is basic			
	1	Central idea is not evident or not			
		developed			
		Organization is minimal and/or weak			
		Evidence is insufficient and/or mostly			
		irrelevant			
		Expression of ideas is ineffective			
		Central idea may be evident			
		The response lacks an introduction and			
		conclusion			
		An organizational structure is not			
		evident			
		Evidence in not provided or irrelevant.			
		Expression of ideas is unclear and/or			
		incoherent			
		monercit			

	Points 2	Note that if a response receives a 0 in Development, the response will also earn 0 points in the Conventions trait. Language Conventions Student writing demonstrates consistent command of grade-level appropriate conventions, including correct: • sentence construction • punctuation
		capitalizationgrammarspelling
	1	Student writing demonstrates inconsistent command of grade-level appropriate conventions, including limited use of correct: sentence construction punctuation
		capitalizationgrammarspelling
	0	Student writing demonstrates little to no command of grade-level appropriate conventions, including infrequent use of or no evidence of correct: • sentence construction • punctuation • capitalization • grammar spelling
scoring	See rubric	for scoring information.

© 2024. Texas Education Agency. Portions of this work are adapted, with permission, from originals created by Amplify Education, Inc. (amplify.com) and the Core Knowledge Foundation (coreknowledge.org).

This work is licensed under a

Creative Commons Attribution-NonCommercial-ShareAlike

4.0 International License. You are free:

to Share—to copy, distribute, and transmit the work

to Remix—to adapt the work Under

the following conditions:

Attribution—You must attribute any adaptations of the work in the following manner:

This work is based on original works of the Texas Education Agency, as well as prior works by Amplify Education, Inc. (amplify.com) and the Core Knowledge Foundation (coreknowledge.org) and is made available under a Creative Commons Attribution- NonCommercial-ShareAlike 4.0 International License. This does not in any way imply endorsement by those authors of this work. Noncommercial—You may not use this work for commercial purposes.

Share Alike—If you alter, transform, or build upon this work, you may distribute the resulting work only under the same or similar license to this one.

With the understanding that:

For any reuse or distribution, you must make clear to others the license terms of this work. The best way to do this is with a link to this web page:

https://creativecommons.org/licenses/by-nc-sa/4.0/ Trademarks and trade names are shown in this book strictly for illustrative and educational purposes and are the property of their respective owners. References herein should not be regarded as affecting the validity of said trademarks and trade names. This work is based on prior works of Amplify Education, Inc. (amplify.com) and the Core Knowledge Foundation (coreknowledge.org) made available under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. This does not in any way imply endorsement by those authors of this work.

Printed in the USA