

SIOP® Lesson Plan Template

TEACHER: Amanda Johnson	CLASS: ELA	DATE: December 4, 2017
TOPIC: Roller Coasters of America (adapted lesson from “A Roller Coaster Day” by Erin Gobb) – Lesson #1		
STANDARDS: RI.4.7 – Interpret information presented visually, orally, or quantitatively and explain how the information contributes to an understanding of the text in which it appears. RF.4.3 – Know and apply grade-level phonics and word analysis skills in decoding words. W.4.8 – Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of resources. SL.4.1 – Engage effectively in a range of collaborative discussions with diverse partners on grade 4 topics and texts, building on others’ ideas and expressing their own clearly.	LANGUAGE STANDARDS: L.4.1 – Demonstrate command of the conventions of standard English grammar and usage when writing or speaking. L.4.4 – Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.	
LESSON OBJECTIVES: Content Knowledge: By the end of the lesson, ESOL’s will: <ol style="list-style-type: none"> 1. Have meaningful discussions with their peers about some of the roller coasters in America. 2. Be able to define key vocabulary words, while being able to correctly pronounce them and use them in context. 3. Create superlative awards and a timeline of the roller coasters we will read about in class. 		
LANGUAGE OBJECTIVES: By the end of the lesson, ESOLs will demonstrate increasing proficiency in the performance of the following functions and their forms:		
Function (in –ing form, eg. “Retelling a story”)	Form (grammatical term and/or example, eg. “Past Tense: ‘The boy went to see his grandfather;’”)	
<ol style="list-style-type: none"> 1. Retelling 2. Comparing and Contrasting 3. Asking Clarifying Questions 	<ol style="list-style-type: none"> 1. Past Tense: “The roller coaster was <i>built</i>...” 2. Using superlatives when comparing and contrasting roller coasters. Example: Fastest, Highest, Longest, Slowest 3. “What does it mean for a roller coaster to have an inversion?” 	
KEY VOCABULARY: <ol style="list-style-type: none"> 1. roller coaster 2. attract 3. attraction 4. tourist 5. constructed 6. operating 7. inversion 8. encounter 9. hyper coaster 10. g-force 	MATERIALS (including supplementary and adapted): <ol style="list-style-type: none"> 1. YouTube Video – Virtual Roller Coaster Ride (https://www.youtube.com/watch?v=RgYQDi_mZpo) 2. Vocabulary Journals (Language Dictionary) 3. “Screamin’ Roller Coasters” Handouts by Erin Gobb 4. YouTube Video: “How to Make a Timeline” (https://www.youtube.com/watch?v=842mEdbuTJs) 5. Construction Paper 6. Markers, Scissors, Pencils, Crayons 	
TIME: 60 - 90 MINUTES	ACTIVITIES BUILDING BACKGROUND LINKS TO EXPERIENCE: Begin the lesson by showing a video of the virtual roller coaster ride and ask students if they have ever been on a roller coaster. Ask students to share some of those experiences before moving on.	

LESSON:

1. Review each vocabulary with the students and have them write down the words in their vocabulary journals, writing both the definition and a sentence to go with it. Check for understanding by asking students to share their sentences with their partners.
2. When we have finished going over the vocabulary words, students will work on giving awards to the roller coasters. Students will be put in to groups of four and they will go through the information again and determine which roller coasters should receive the following awards: "Fastest," "Most Inversions," "Tallest Drop," "Longest Time," "Most G-Force," "Longest Track," "Oldest" and have each individual student create their own for "My Favorite." They can create their awards in any shape they like; it can look like a medal, a certificate, or a trophy. Before letting them begin, make sure to model superlatives with other examples. Have students come to the front of the room and ask, "Who is the tallest?" Bring a few books out and ask the students "Which one is the longest?" To show them additional examples of what a superlative is and how we use them to compare and contrast items.
3. When the students have completed their medals, they are going to use the information in the reading to create a timeline of the roller coasters. Bring the students to the front of the room and show the video about creating a timeline to ensure that they all remember what a timeline is and the various ways to show that information. Continuing working in their groups, they will need to look in each passage and find the important dates from each one. When they have the dates collected with the information, they will need to organize them in chronological order to create a timeline. Students may use provided materials to create their timeline and turn in when completed.
4. When everyone has finished, each group will fill out a peer and self-evaluation on how they collaborated with their groups on today's activities, they will keep these throughout the unit, adding notes after each lesson.

STUDENT ACTIVITIES (check all that apply for activities throughout lesson):

- Scaffolding:** **Modeling** **Guided** **Independent**
- Grouping:** **Whole Class** **Small Group** **Partners** **Independent**
- Processes:** **Reading** **Writing** **Listening** **Speaking**
- Strategies:** **Hands-on** **Meaningful** **Links to Objectives**

REVIEW AND ASSESSMENT (check all that apply):

- Individual** **Group** **Written** **Oral**

FORMATIVE ASSESSMENT:

As we go through the material, we will take time to stop and check for understanding. The teacher will also move around the room during group work to ensure that all students are on task and understanding what they are looking for and how to put that information in to print correctly.

screamin' Roller Coasters

Desperado

The Desperado roller coaster opened in August 1994 at Buffalo Bill's Resort in Primm, Nevada. It was built in order to attract more tourists from the highway. It features a 225 foot drop and reaches speeds of up to 80 miles per hour. Over a mile long, the length of the Desperado's track stretches 5,843 feet! So, it's no wonder the ride lasts 2 minutes and 43 seconds. With a G-force of 4, there are no inversions and the steepest drop on the Desperado is 55 degrees. It is constructed of steel and considered a hyper coaster.



Nitro

The Nitro roller coaster has been operating since May 2001 at Six Flags Great Adventure in Jackson, New Jersey. At the time of its construction, it was the fastest roller coaster in New Jersey and the tallest on the east coast of the United States. The Nitro has 5,394 feet of track and the duration of the ride is 2 minutes and 20 seconds. Reaching speeds of up to 80 miles per hour, the steepest incline riders will encounter is 68 degrees with a 215 foot drop. Although it has no inversions, the Nitro is considered a mega coaster with a G-force of 4.3.



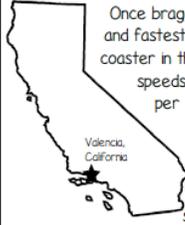
Phantom's Revenge

Phantom's Revenge is a steel roller coaster at Kennywood in West Mifflin, Pennsylvania. At its May 1991 opening, it was the fastest roller coaster with the longest drop of any roller coaster in the world! It originally contained four inversions, but they were all removed. Currently, the biggest drop on the Phantom's Revenge is 228 feet and it reaches speeds of up to 85 miles per hour. It takes 1 minute and 57 seconds to ride this roller coaster with a total length of 3,200 feet. Phantom's Revenge is considered a hyper coaster. Its steepest incline is 52 degrees and riders reach a G-force of 35.



Goliath

Goliath is a mega coaster located at Six Flags Magic Mountain in Valencia, California. It first opened in February 2000. This steel roller coaster has a drop of 255 feet at a maximum 61 degree vertical angle. With a G-force of 45, it takes riders 2 minutes and 6 seconds to finish this track. Once bragged as the longest and fastest closed-circuit roller coaster in the world, it reaches speeds of up to 85 miles per hour on its 4,500 feet of track. Riders do not experience an inversion on this steel roller coaster.



screamin' Roller Coasters, p. 2

Millennium Force

Millennium Force at Cedar Point in Sandusky, Ohio was the first giga coaster in the world! It is considered a giga coaster because it has a drop between 300ft and 399ft and completes a full circuit. It opened in May 2000 and is constructed of steel. Riders experience a 300 foot drop and an amazingly steep maximum vertical angle of 80 degrees! Millennium Force has a whopping 6,900 feet of track. It takes 2 minutes and 20 seconds to ride this roller coaster that has no inversions. This giga coaster experiences speeds of up to 93 miles per hour with a G-force of 4.4.



Superman: Krypton Coaster

The Superman Krypton Coaster is located at Six Flags Fiesta Texas in San Antonio, Texas. It opened in March 2000 and has the world's tallest 360 degree inversion, or loop, at 145 feet. The track extends to a length of 4,025 feet and passengers reach top speeds of 70 miles per hour and a maximum vertical angle of 58 degrees. Because its tallest drop is only 163 feet, Superman Krypton Coaster is not considered a hyper coaster. It takes 2 minutes and 35 seconds to ride this coaster with six total inversions and a G-force of 3.8.



Intimidator

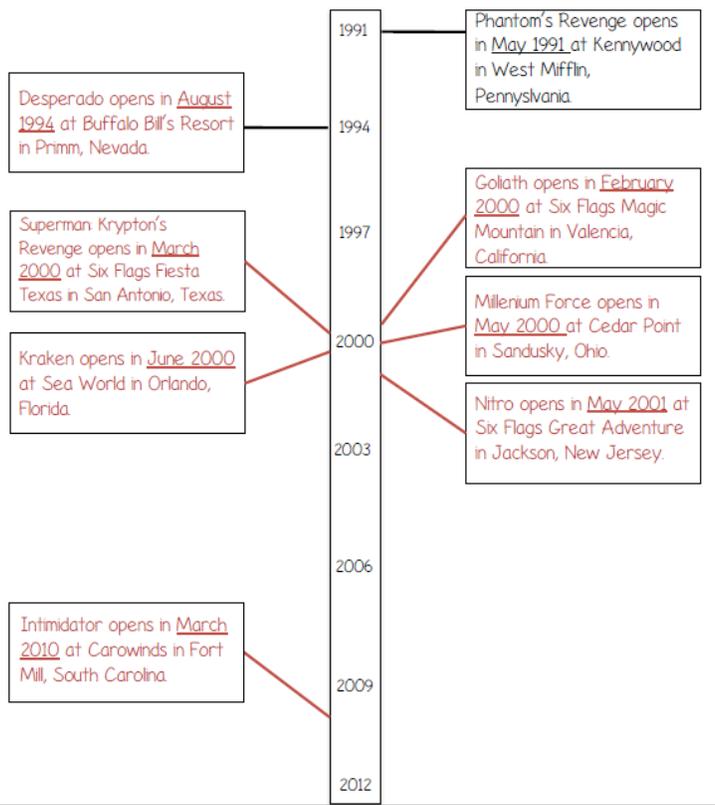
The Intimidator is located at Carowinds in Fort Mill, South Carolina. A section of the park also stretches into Charlotte, North Carolina. This hyper coaster first opened in March of 2010. It is one of the fastest, tallest, and longest roller coasters in the southeast with a 232 foot drop and speeds of up to 75 miles per hour and a track length of 5,316 feet. With a steep vertical angle of 74 degrees, this ride lasts an impressive 3 minutes and 33 seconds. The Intimidator is made of steel, has no inversions, and has a G-force of 4.3.



Kraken

The Kraken is a steel roller coaster located at Sea World in Orlando, Florida. It opened in June of 2000. Although the biggest drop is only 144 feet, Kraken thrills its riders with an impressive 7 inversions, including a 109 foot tall vertical loop and several smaller loops and rolls. During the 3 minutes and 31 seconds of this ride, passengers will reach speeds of up to 65 miles per hour and a G-force of 3.9. The length of Kraken's track is 4,177 feet and the steepest drop is 49 degrees.





Quick Peer Evaluation Form



Name _____ Class Period _____ Date _____

Write the names of your group members in the numbered boxes. Then, assign yourself a value for each listed attribute. Finally, do the same for each of your group members and total all of the values.

Values: 5=Superior 4=Above Average 3=Average 2=Below Average 1=Weak

Attribute	Myself	1.	2.	3.	4.
Participated in group discussions.					
Helped keep the group on task.					
Contributed useful ideas.					
How much work was done.					
Quality of completed work					
Totals					

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Group Self Evaluation Checklist

Name _____ Class Period _____ Date _____

Topic of Study _____ Group Members' Names _____

As a team, decide which answer best suits the way your team worked together. Then, complete the remaining sentences.

We finished our task on time, and we did a good job! YES NO

We encouraged each other and we cooperated with each other. YES NO

We used quiet voices in our communications. YES NO

We each shared our ideas, then listened and valued each other's ideas. YES NO

We did best at _____

Next time we could improve at _____

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