Name: Reynolds, Moon	Grading Quarter: 2	Week Beginning: Week 2 10/21/24-10/25/24
School Year: 2024-2025	Subject: Science	

Monday	Notes:
	Grade 5
	Unit 4:
	Earth and Space Patterns
	Lesson 1:
	The Role of Gravity
	Essential Question:
	What pulls objects down?
	
	Continued from last week.
		Objective:
		• Students will support an argument that gravity causes objects to be pulled toward the earth.
		
		Lesson Overview:
		• Explain
		  ○ Academic Vocabulary:
		  ▪ Meteor- a space rock that enters Earth's atmosphere.
		  ▪ Meteorite- a meteor that strikes Earth's surface.
		  ○ Page 14- Meteors and Meteorites
		  ▪ Read About: Meteors and Meteorites
		  ○ Page 15- Writing Connection
		  ▪ Investigator: *Gravitational Waves*
		  • Read the Investigator article.
		  • On a separate sheet of paper, write a paragraph about how the findings of Einstein and other scientists have been important in understanding how gravity works. How have the ideas of scientists in the past affected our use of technology in the study of gravitational waves?
		  • Use the Cause-and-Effect graphic organizer to help.
		  ○ Example of Causes:
		  ▪ Sir Isaac Newton explains that every object has a gravitational pull.
		  ▪ Einstein created a theory about gravitational waves.
		  ○ Example of Effects:
		  ▪ Researchers use special technology to listen for gravitational waves.
			Academic Standards:
			5. P1U1.3
			Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching.
			5. E2U1.8
			Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.

Tuesday	Notes: **Grade 5** **Unit 4:** Earth and Space Patterns **Lesson 1:** The Role of Gravity **Essential Question:** What pulls objects down? Continued from last week.	Objective: • Students will support an argument that gravity causes objects to be pulled toward the center of Earth. Lesson Overview: • Explore ○ Pages 8-10- Inquiry Activity: *Crater Model* ▪ Materials: • Safety goggles • Newspaper • Shallow pan • Flour • Ruler • Pan balance • Modeling clay ▪ Make a Prediction: How does the size of an object affect the size of the crater that it forms? ▪ Carry Out an Investigation • Record Data on chart ▪ Communicate Information ○ Page 11- Make Your Claim: What factors affect how objects fall to Earth's surface? ▪ Students use their inquiry activity as a reference to make their claim and support it.	Academic Standards: **5. P1U1.3** Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching. **5. E2U1.8** Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.

Wednesday	Notes: **Grade 5** **Unit 4:** Earth and Space Patterns **Lesson 1:** The Role of Gravity **Essential Question:** What pulls objects down?	Objective: • Students will support an argument that gravity causes objects to be pulled toward the center of Earth. • Students will understand that the size of an object affects the size of the crater that it forms. Lesson Overview: • Explain ○ Pages 16-18- Inquiry Activity: *Falling Water* ▪ Materials: • 2 paper cups • pencil • water • bucket ▪ Make a Prediction: What will happen if I drop a container while water is pouring out of it? ▪ Carry Out an Investigation • Record Data on chart on p. 17 ▪ Communicate Information • Draw a diagram of gravity's pull from opposite sides of the earth. • How does Earth's gravity effect the moon?	Academic Standards: **5. P1U1.3** Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching. **5. E2U1.8** Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.
Thursday	Notes: **Grade 5** **Unit 4:** Earth and Space Patterns **Lesson 1:** The Role of Gravity **Essential Question:** What pulls objects down?	Objective: • Students will support an argument that gravity causes objects to be pulled toward the center of Earth. Lesson Overview: ○ Review The Role of Gravity. ▪ ReadWorks: This is How Orbits Work! • Have students read the article. • Students work in groups to answer the questions. ▪ Video: *Gravity's Direction*	Academic Standards: **5. P1U1.3** Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching. **5. E2U1.8** Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.

Friday	Notes: **Grade 5** **Unit 4:** Earth and Space Patterns **Lesson 1:** The Role of Gravity **Essential Question:** What pulls objects down?	Objective: • Students will support an argument that gravity causes objects to be pulled toward the center of Earth. Lesson Overview: • Evaluate ○ p. 20-22- Lesson 1 Review ▪ Summarize It • Explain what pulls objects toward Earth's surface. ▪ Three-Dimensional Thinking • What causes Earth's changing tides? ▪ Extend It • Reasearch high and low tides to determine the best time to observe sand crabs.	Academic Standards: **5. P1U1.3** Construct an explanation using evidence to demonstrate that objects can affect other objects even when they are not touching. **5. E2U1.8** Obtain, analyze, and communicate evidence to support an explanation that the gravitational force of Earth on objects is directed toward the planet's center.