

A Collaborative Unit
Library/Technology/Classroom
Northwest Crossing/2nd grade

Topic / Title / Theme: Space Science

Goal:

Students will be able draw and explain 4 of the 8 phases of the moon (New Moon, 1st Quarter, Full Moon, and Last Quarter)

Objectives:

1. Identify and record moon phases in the night sky.
2. Read to find information.
3. Use appropriate vocabulary in context.
4. Demonstrate knowledge by constructing a model.
5. Compare and Contrast using a graphic organizer.

Student activities to meet objectives:

1. View "Moon" video on www.brainpop.com.
2. View Teacher Created PowerPoint on the moon phases.
3. Review moon phases information and terminology with "The Millionaire Game".
4. Construct a model of the phases of the moon.
5. Construct moon phases flip book.
6. Moon Watch Calendar - reporting on the moon.
7. Compare and contrast the phases of the moon.

LIB	CIT	Teacher	<u>Task / Notes:</u>
			<u>Who is responsible?</u>
		X	<u>Supplies:</u> <ul style="list-style-type: none"> ▪ Flashlight ▪ Globe ▪ Mirror
X		X	<u>Print Resources:</u> <ul style="list-style-type: none"> ▪ The Moon (La Luna) by Marc Singer ▪ <u>The Moon Book by Gail Gibbons</u>
X	X		<u>Non-Print Resources: (websites, videos)</u> <ul style="list-style-type: none"> ▪ http://www.brainpop.com for moon video ▪ "Moon" from Region XX (VHS-#5705)
	X		<u>Technology:</u> <ul style="list-style-type: none"> ▪ Set up and give overview of instructions for completion of brochure. ▪ See Instruction(Teacher): Berg to export pictures into a folder for brochure. ▪ Create "My Moon Glossary" book for 4 classes. ▪ Check for Space Encyclopedia CD-Rom
X			Instruction: (Librarian) <ul style="list-style-type: none"> ▪ Terminology ▪ Check for Space Encyclopedia CD-Rom
		X	<u>Instruction: (Teacher)</u> <ul style="list-style-type: none"> ▪ Ask art teacher (K. Rossell) for art project connection. ▪ Berg to export pictures into a folder for brochure. ▪ Torres to review science CD-Roms and books.
		X	<u>Evaluation / Assessment:</u> <ul style="list-style-type: none"> ▪ Create rubric to assess Moon brochure.

Inter-Disciplinary connections:

Math: Fractions

Science: Theme is science concept.

S.S.: Timeline of Space Exploration.

L.A.: Read non-fiction resources for information. Terminology (illumination, phases, orbit, quarter, satellite, moon, moonlight, reflection, gravity, rotation.)

Music: Jennifer Berg to check with music teacher for project.

Art: Jennifer Berg to check with art teacher for project.

Other: None

Student Outcomes; (What is the final product?) Create a MS Publisher brochure that illustrates the required 4 phases of the moon. Students will either create an informational brochure or a creative travel brochure.

Assessment and Evaluation: (Attach rubric if used)

Need to create rubric

Standards Met:

NI SD –II. B. Observe, measure, report, and predict patterns and changes in weather and seasons.

III. A. Observe, identify, and record the phases of the moon.

TEKS - TEKS 2.7 Knows and Observes many types of changes occur in the night sky.

LOTI (Level of Technology Implementation) – Level 3 Infusion

Other

TIMELINE

Planning, Organization, Implementation, Post-Evaluation

Week of March 3-7	Monday-Mar. 3	Tuesday-Mar. 4	Wednesday- Mar. 5	Thursday- Mar. 6	Friday-Mar. 7
Teacher	Introduction to Moon Unit with PowerPoint— Students begin completing My Moon Glossary Book. Introduce Moon Watch worksheet to track Moon phases for 1 week. (http://tycho.usno.navy.mil/vphase.html)	Complete worksheet ss-50 "The Moon"	Moon Phases Flip Book ss-46 (Students will take these books with them to complete their brochures)	Compare and contrast phases of the moon. Students will record their findings on a graphic organizer (Venn Diagram) ss-56	Technology Assessment (Moon Phases Brochure)
Librarian	Read <u>The Moon</u> by Marc Singer and <u>The Moon Book</u> by Gail Gibbons Continue working on My Moon Glossary Book		Show Brainpop "Moon" video and/or website (Flip Flop Librarian and CIT- W & TH)		
CIT	Assist with PowerPoint Create "My Moon" Glossary Book		Content TIP Lesson: "Phases of the Moon"—Students create 4 phases of the moon in Kidpix.	Technology Assessment (Moon Phases Brochure) Create Template	
GT		Enrichment on Moon unit with GT kids and other kids selected by teacher.			