#### Name: Damaris Montoya

# **Lesson Plan**

Lesson: 3 of 6

Course & topic addressed: Science- The Solar System Date: 03.09.2020 Grade: 5th

Learning Segment Focus: Space: The Solar System and it's Stars- QR Code App

#### **Student Outcomes**

Specific learning objectives Students will be able to identify the 8 planets in the Solar System, know facts about the Sun/Ea		
for this lesson. and know astronomical vocabulary by 95 percent.		
Justify how learning tasks are Students will use their schema on the knowledge gained from the prior lesson about the Earth		
<b>appropriate using examples of</b> systems, specifically the geosphere, biosphere, hydrosphere, and/or atmosphere interact and the		
students' prior academic	a little introduction to the Solar System. Students will use their prior knowledge on using iPads to	
learning.	scan the QR codes to obtain information. This prior knowledge will lead to a scavenger hunt on the	
	Solar System and the universe to lead into a discussion on the Solar System and the Universe.	
Justify how learning tasks are My class has 8 white, 10 African American, 1 Asian and 5 Hispanic. I have 4 who have been		
<b>appropriate using examples of</b> identified as are English Language Learners and 2 who have been identified as SPED. M		
students' personal, cultural, students are part of a pull- out program twice a week for 30 minutes each. My 2 SPED stud		
linguistic, or community part of a resource class they have every day for an hour. I have 3 ACE students who are p		
assets. higher learning 2 days a week in the afternoon. With a great diversity in my classroom, my		
	able to learn amongst their peers through cultural differences.	

#### **State Academic Content Standards**

List the state academic content	5-ESS1.A: The Universe and its Stars
standards with which this lesson is	5-ESS1.B: Earth and the Solar System
aligned. Include abbreviation, number	RI.5.7 Draw on information from multiple print or digital sources, demonstrating the
& text of the standard(s).	ability to locate an answer to a question quickly or to solve a problem efficiently.
	SL.5.5 Include multimedia components and visual displays in presentations when
	appropriate to enhance the development of main ideas or themes.

Key Vocabulary						
What vocabulary terms/content specific	Solar System	Planet	Dwarf planets	<b>Inner Planets</b>	Outer P	lanets Sun
terminology must be addressed for	Star	Asteroid	Meteoroid	Comet	Orbit	Terrestrial
students to master the content?	Silicate	moon				

#### Academic Language Support

**X**7

What are the Academic Language Function(s) (the content and language focus of the learning task represented by the active verbs within the learning objectives/outcomes) and explain how they are utilized in the lesson plan? What planned Academic Language Supports will you use to assist students in their understanding of key academic language to express and develop their content learning and to provide varying supports for students at different levels of Academic Language development? How do these supports address all three Academic Language Demands (vocabulary, syntax, and discourse)?	Students will use the QR codes to go on a scavenger hunt of the Solar System. They will have a Solar System question worksheets as they go on the hunt and scan the QR code to learn about the solar system. They will have to write down the answers to the questions from the information they collected scanning the QR codes/websites. I will have an example of a poster with a QR code and show them how to scan the code with the iPad as a review and show them an example of how I want the question answered. This will help remind my students, especially the ELLs and SPED on expectations.
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# Materials

Materials needed by teacher for this lesson. (such as	Posters of each planet/ star with QR codes
books, writing materials, computers, models, colored	scissors
paper, etc.)	tape
	24 iPads (set QR reader app)
Materials needed by students for this lesson. (computers,	24 iPads with QR reader app
journals, textbook, etc.)	24 Solar System question worksheets
	24 pencils

# Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning Activities	Describe what VOU (teacher) will be doing
Amount of Time	(This should be a BULLETED	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during
	•	and/or what STUDENTS will be doing during
	LIST)	this part of the lesson. (This should be VERY
		DETAILED)
		"Hope lunch and recess were a good break!
5 minutes	Introduction:	Let's back to learning with a fun activity we are
		going to do today! Just as we learn about our
		planet Earth and it's systems, today we are going
		to learn about where our Earth is located. Who can
		tell me where our Earth is located? *Student
		Raises hand and answers correctly* "Good job!
		The Solar System! We had a little introduction to
		space when we learned about the Earth's layers of
		the atmosphere. Not only will we learn about the
		location of Earth, but about the 8 planets, the sun
		and other objects in space."
	Instruction:	
35 minutes		"Alright class, you are going to take a virtual field
		trip to space! You will get a Solar System
		worksheet with questions about the space. This
		will help you remember what you saw and learned
		about Earth, the Sun, the Moon, the Planets, and
		the objects you see around you as you travel. For
		our virtual field trip, each person will travel to a
		different spot and I will ring a bell when it is time
		to travel another place. Each station has a poster
		with QR code. However, here is a secret. I have
		hidden these codes around the room and you must
		travel around and see if you can find them. Each
		QR code has the question it answers when you
		scan them. You will take your iPad and scan the
		QR code like this and a website or video will pop
		up where you must listen or research the page for
		the answer to the question. When you are finished,
		keep your paper at your desk because we will go
		over what you saw and experienced. This
		over what you suw and experienced. This

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		worksheet will also help you in the rest of our
		lessons as a dictionary or reference page when you
		do not understand a word or forget what
		something is. Later on we'll be learning facts
		about each planet. Right now we are starting with
		the basics.
		Alright, before you get you iPads, I am going to
		show you an example of what I want you to do.
		Oh look I found a QR code on the board. The
		question on the code is "What is the fifth planet
		from the sun?"I am going to open the QR Reader
		app. Put the camera facing the code so it can scan
		it. Look it scanned the code! Now it will take me
		to a video. I will listen to this video closely and
		see what planet it is going to talk about and see if
		what my answer is." *plays 2 minute video.*
		"Oh did everyone hear that? What is the fifth
		planet from the sun?" *Student raises his hand and
		answers correctly.* "Yes that is correct! It is
		Jupiter. I will go to my worksheet and put down
		Jupiter on the line beside the question. Since, we
		are working on writing our answers in complete
		sentences, your questions will require a little more
		information than my question did. After I am done
		with the answer I will go and search for another
		code. Remember this is an individual activity not
		a group activity.
		Okay class, go get your iPads from the charging
		station. Remember to put hand sanitizer on before
		touching the iPads. Come back to your desk for
		your worksheet, Liz is passing them out! When
		you hear the bell that means everyone is ready and
		you can start." *Bell rings* *Activity starts*
		Alright, boys and girls! It looks as if everyone
5 minutes	Closure:	found the codes! Good! What are some of the
		things you learned, saw and experienced?"
		*Students share experiences and some of the
		terms they learned* Awesome boys and girls!
		Sounds like you had fun! Turn in your paper so I
		can see all your different answers. I will give it
		back to you tomorrow to put in your science
		notebook as a reference and study guide as we
		continue with our unit of Earth and the Solar
		Systems!" "Let's turn in the questions and the get
		for art! You get to create planets!"

#### Accommodations/Modifications

How might I modify instruction for:	With ELL and IEP/504 students, depending on their level, I will provide different
Remediation?	modifications. The lower level students will be assigned partners to take them
Intervention?	around with a word bank/fill in the blank worksheet. Intermediate level students
IEP/504?	will receive sentence frames to help them build sentences and conversations.
LEP/ESL?	Gifted students will get harder questions to answer on the information provided

(All students who have plans mandated	by the QR code. If finished early, they will help other students with the questions
by federal and state law.)	and find QR codes if needed.

#### Differentiation

How might you provide a variety of	
techniques (enhanced scaffolding,	Students will have anchor charts around the room that provide
explicit instruction, contextualized	information on what makes a complete sentence to answer questions
materials, highlighters/color coding, etc.)	correctly. There will be a poster to remind students on how to use a
to ensure all student needs are met?	QR code. Advanced students will act as peer tutors if needed. They
(All students who are not on specific	
plans mandated by federal and state	may even help create codes for future use of the scavenger hunt.
law.)	

## Assessments: Formative and/or Summative

Describe the tools/procedures that will be	☐ Formative /□ Summative	Spoken question/answers
used in this lesson to monitor students'	☐ Formative /□ Summative	Solar System Question Worksheet
	☐ Formative /□ Summative	Class Discussion over what they
type of assessment & what is assessed).		experienced on the virtual field trip.

#### **Research/Theory**

Explain connections to theories and/or	Vygotsky: There is social interaction and discussion amongst peers on the
research (as well as experts in the field or	virtual field trip to space.
national organization positions) that	
support the approach you chose and	Constructivism: Students must use their prior knowledge to collect information
justify your choices using principles of	and answer questions using QR codes.
the connected theories and/or research.	

#### Lesson Reflection/Evaluation

vent well?	FILLED IN AFTER TEACHING
hanges should be made?	
ill I use assessment data for next steps?	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

#### **Resources For Lesson Plan:**









### https://www.teacherspayteachers.com/Product/Solar-System-Activities-Solar-System-QR-Codes-Scavenger-Hunt-2451756 QR Reader APP

#### \*adapted from:

- http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPI an.doc+&cd=2&hl=en&ct=clnk&gl=us;
- $\underline{http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx;}$
- http://www.mcneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Docume nts/edTPA/Resource12.pdf; https://www.uwsp.edu/education/Documents/edTPA/Resource11.pdf;
- https://www.uwsp.edu/education/Documents/edTPA/Resource11a.pdf;
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