Mini Lesson Plan

 Learning Segment Focus:
 Light Energy
 Lesson _3_ of _6__

Course & topic addressed: ____Physical Science/Energy___ Date __12/13/2020__

Grade __4___

Students Outcomes

Specific leaning objectives for this lesson.	Students will explain that light is a form of energy and can be characterized as a wave. Students will understand why the different colors of the spectrum represent light waves vibrating at different frequencies. Students will be able to describe reflection and refraction of light waves.
Justify how learning tasks are appropriate using and example of students prior academic learning.	This lesson will allow students to use their personal experiences with light as a guiding tool to learn new information.

State Academic Content Standards

List the state academic content	4-PS3-2 Make observations to provide evidence that energy can be
standards with which this lesson is	transferred from place to place by sound, light, heat, and electric
aligned. Include abbreviation, number	currents.
& text of the standard(s).	

Key Vocabulary

What vocabulary terms/content	Light, wave, opaque, translucent, transparent, reflection, refraction,
specific terminology must be	absorption, image, electromagnetic wave, convex lens, concave lens,
addresses for students to master the	illuminated, luminous, white light, prism, wavelength, primary colors of
content.	light.

Materials

Materials needed by teacher for this lesson. (such as books, writing materials, computers, models, colored paper, etc.)	Paper, pen, computer, projector, mirror, rock, glass cup, silver tin (metal), picture frame, book, sun or light, internet, white board, dry erase markers, magnifying glass
Materials needed by students for this lesson. (computers, journals, textbook, etc.)	Pencil, paper, internet, computer, or tablet

Lesson Timeline with Instructional Strategies & Learning Tasks

Amount of Time	Teaching & Learning	Describe what the teacher
	Activities (Bulleted Style)	will be doing and/or
		students. (Make it detailed)

10 minutes	Introduction:	I will write the 5 vocabulary words
10 minutes	• Students will be given 5	down for the students along with
	vocabulary words that they	the definitions, so they may write
	are to write down	them down and put them into their
	 We will discuss what they 	folders.
	think light energy is and	
	students will give what	I will then ask the students that they
	they think are examples	think light energy is and the ask for
	uley units are examples	examples.
20 minutes	Introduction:	I will show the students pictures of
	• Students will begin by	light energy. As I am showing the
	looking at pictures of what	pictures, I will explain to the
	light energy is	students what is happening in that
	• If the sun is shining	picture.
	students will gather at a	
	window and help conduct	I will then have all of my students
	an experiment using the	gather at the window to experiment
	sunlight. (If it is not sunny,	with light reflection and refraction.
	we will improvise using	
	artificial sunlight)	Each student will grab and item,
	• Students will use a	hold it up to the sunlight to see
	magnifying glass, mirror,	what the reaction is.
	rock, glass cup, silver tin	T 111 1 1 1 1 1 1 1 1
	(metal), picture frame,	I will ask the students to record
	book to see if the light	their findings on a piece of their
	reflects or refracts.	notebook paper.
	• The students will write	Once everyone has had a turn at the
	down their answers.	window, I will ask that they get out
	• The student will then get	their laptop or tablet and open up
	their laptops or tablets out	flip grid.
	and use an online tool	mp grid.
	called <u>flip grid</u> .	I will then ask the students to make
	• The students will tell of	a video explaining what they did
	their findings and can even	and what their findings were. They
	demonstrate what they are	may have someone help them if
	talking about by having a	they would like to demonstrate the
	friend help.	experiment.
10 minutes	Closure:	I will ask for volunteers to share
	• Students will discuss how	their thoughts on how light energy
	light energy affects our	affects us. I will encourage
	community and our lives.	everyone to share their thoughts,
	• Students will be given the	but I will not force anyone to
	chance to ask ay questions.	answer
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		I will give a little bit of my thoughts
		and then I will move on to answer
		any questions.

Accommodations/Modifications

How might I modify instruction for:	For my student that need modification, I will have worksheets with an
Remediation?	example of light energy, the vocabulary, and the definitions. I will
Intervention?	

IEP/504?	also have extra objects, so they will have more things and time to
LEP/ESL?	experiment with.
(All students who have plans mandated	
by federal and state law.)	

Technology Connections

Technology that will be sed during the	Computers, flipgrid, google
lesson plan. (Bullet Style)	