

LEARNING ACTIVITY SHEETS

Grade 4 – Science

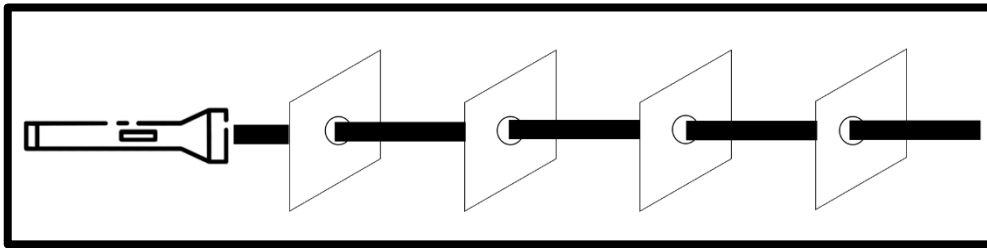
Name: _____ Date: _____ Rating/Score: _____

LET'S TRAVEL WITH LIGHT AND SOUND

Part A: How light travel?

Directions: Refer to the illustration to answer the questions.

Figure 1: Light passing through four cards with hole

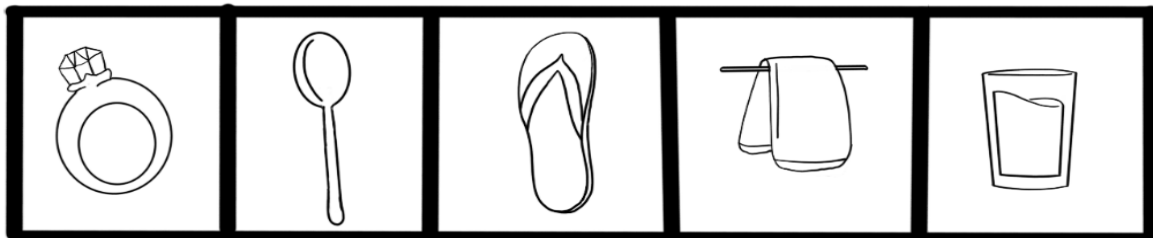


1. How are the hole in the cards lined up?

2. How do the hole in the cards related to the path the light travels?

Part B: Fact or Bluff

Directions: Write **FACT** if the object reflects light and **BLUFF** if not.



--	--	--	--	--

Specific Week: Week 6-7 (LAS 4)

Target Competency: Investigate properties and characteristics of light and sound (S4FE-IIIh-5)

(This is a Government Property. Not For Sale)

LEARNING ACTIVITY SHEETS

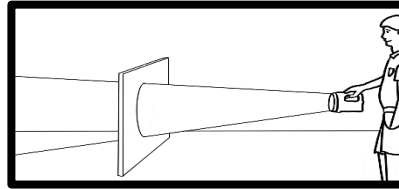
Grade 4 – Science

Part C: Light through Objects

Directions: Put a check mark inside the box that describes what happens to light as it strikes on the following objects.

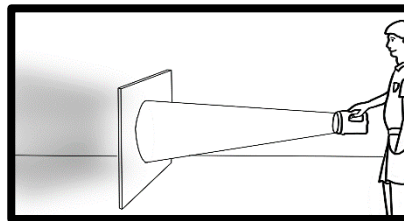
A. Transparent object

<input type="checkbox"/>	the light passes through
<input type="checkbox"/>	the light is blurred
<input type="checkbox"/>	the light is blocked



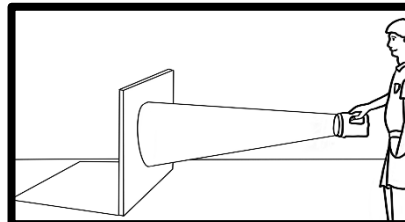
B. Translucent object

<input type="checkbox"/>	the light passes through
<input type="checkbox"/>	the light is blurred
<input type="checkbox"/>	the light is blocked



C. Opaque object

<input type="checkbox"/>	the light passes through
<input type="checkbox"/>	the light is blurred
<input type="checkbox"/>	the light is blocked



Part D: Loud... Loud.. Loud...

Directions: Identify which of the following can produce loud sound. Put a check mark on the space provided before the number.

- ___ 1. airplane taking off
- ___ 2. playing trumpet
- ___ 3. fireworks
- ___ 4. whispering to someone
- ___ 5. ringing of alarm clock

- ___ 6. banging of hammer
- ___ 7. chanting and shouting
- ___ 8. walking in the beach
- ___ 9. human heartbeat
- ___ 10. thunder

Specific Week: Week 6-7 (LAS 4)

Target Competency: Investigate properties and characteristics of light and sound (S4FE-IIIh-5)

(This is a Government Property. Not For Sale)

LEARNING ACTIVITY SHEETS

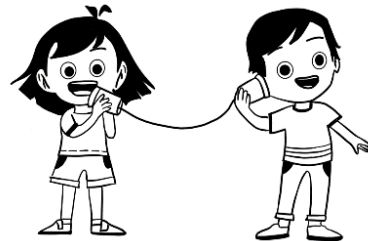
Grade 4 – Science

Part E: Call me now

Directions: Read the paragraph. Arrange the sentences below it to show the correct order on how sound travels. Number it 1-5.

As pupil A talks into the plastic cup, the air vibrates causing the plastic cup to vibrate. Then the string vibrates, transmitting the sound across the string to the plastic cup of pupil B. As the cup of pupil B vibrates, the air in the plastic cup vibrates and pupil B hears the sound.

	The vibrations are heard by pupil B
	The air vibrates in the plastic cup of pupil A.
	The string vibrates.
	The vocal cord of pupil A vibrates.
	The air vibrates in the plastic cup of pupil B.



A

B

Part F: Let's have fun, straight or bent?

Directions: Arrange the following jumbled letters to form the word.

Complete the statement below to describe refraction using the formed words.

Refraction of light

T	V	E	L	S	R	A

L	H	G	T	I

R	A	I

R	A	T	E	W

B	N	G	I	D	N	E

A	M	T	I	L	A	E	R

Specific Week: Week 6-7 (LAS 4)

Target Competency: Investigate properties and characteristics of light and sound (S4FE-IIIh-5)

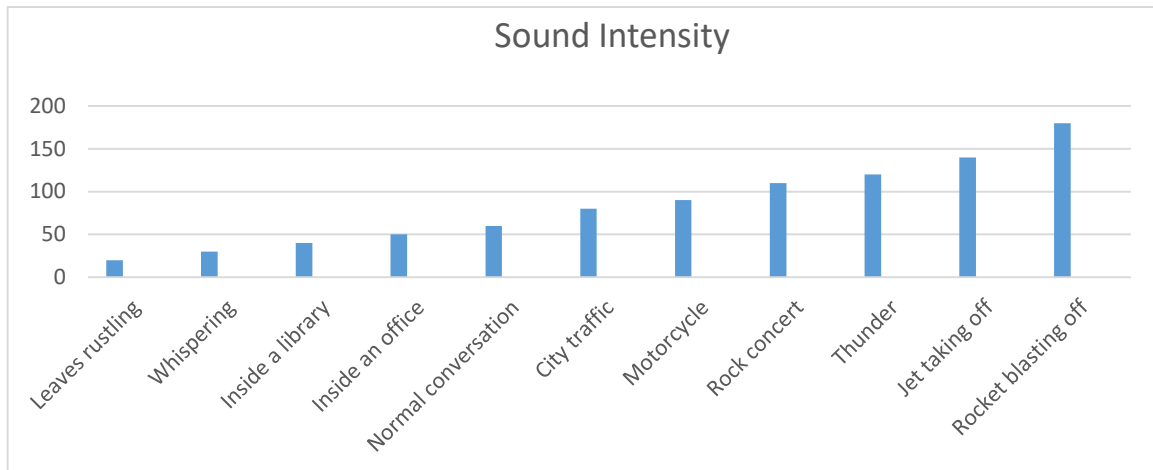
LEARNING ACTIVITY SHEETS

Grade 4 – Science

Refraction is the _____ of _____ as it _____ from one type of _____ to another like from _____ to _____.

Part G: Hear and Understand Me

Directions: Study and analyze the chart below. Read each question and encircle the letter of the correct answer.



1. What is the graph all about?
A. light
B. sound waves
C. speed of light
D. intensity of some sounds
2. Which sound has the highest intensity?
A. thunder
B. city traffic
C. leaves rustling
D. rocket blasting off
3. Which sound has the lowest intensity?
A. thunder
B. motorcycle
C. leaves rustling
D. inside a library
4. If you combine the intensity level of whispering and motorcycle, what is the total intensity level of sound?
A. 50 dB
B. 120 dB
C. 200 dB
D. 100 dB
5. Why is it not safe to hear high intensity level of sound?
A. It can damage the ear drum.
B. It can damage your eye sight.
C. It can make you healthy.
D. all of the above

Specific Week: Week 6-7 (LAS 4)

Target Competency: Investigate properties and characteristics of light and sound (S4FE-IIIh-5)

(This is a Government Property. Not For Sale)