SK CATHOLIC ENGLISH (M) KUCHING
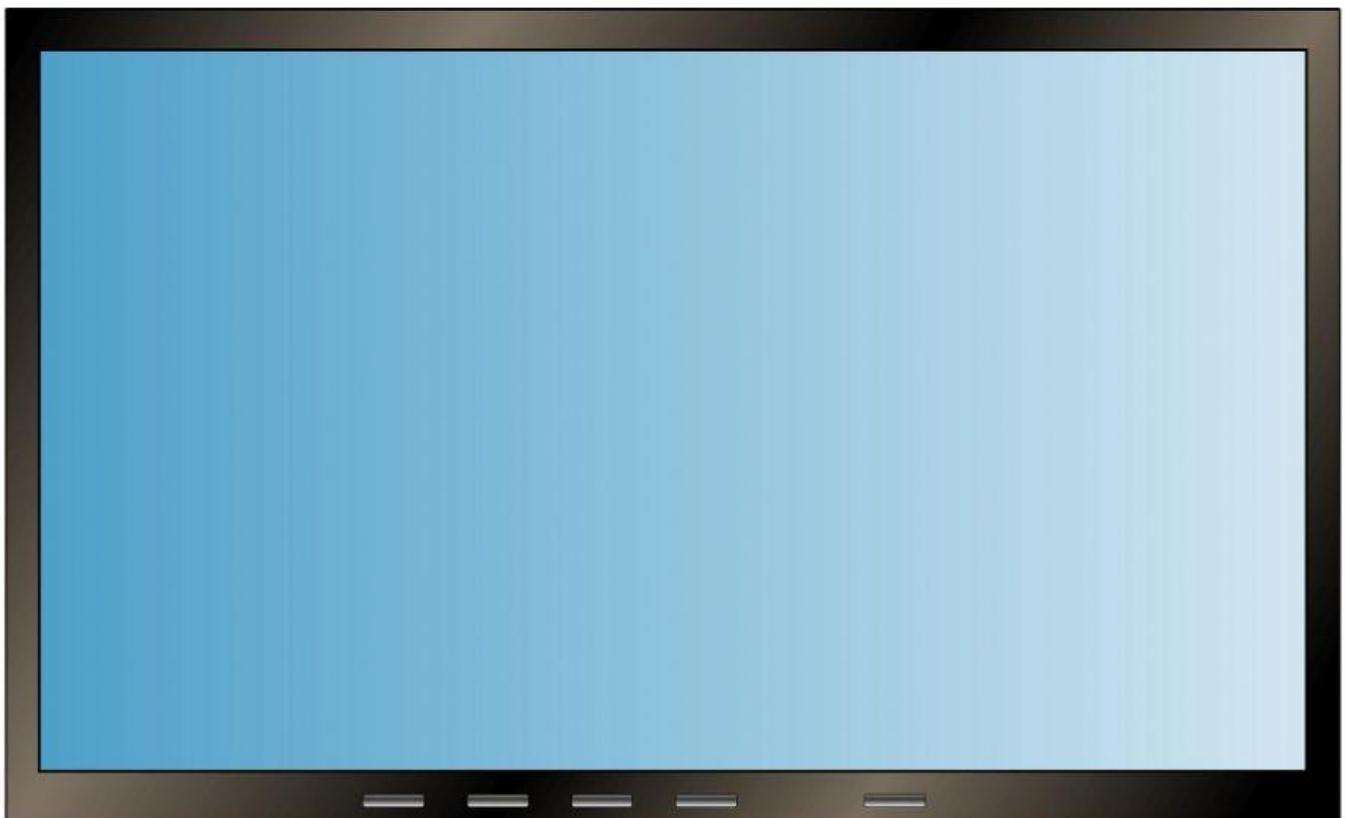## SCIENCE YEAR 2

PdPR Week 20
Wednesday 23rd June 2021

Unit 6 light and dark
Clarity of Shadows

Prepared by Cikgu Hamisah

Watch the Video Lesson below

In the previous lesson, we have learned that **a shadow is formed when light is blocked by an object.**

Now, what happens when the **light is blocked by a plastic book wrapper?** Does it form a shadow?

Let us carry out an investigation to observe the clarity of shadows.
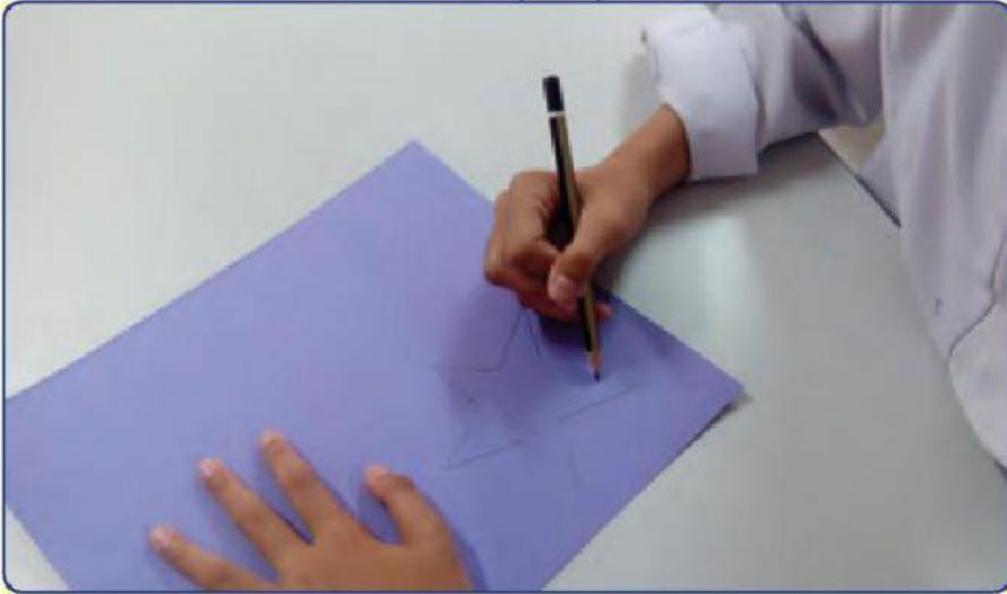
INVESTIGATION
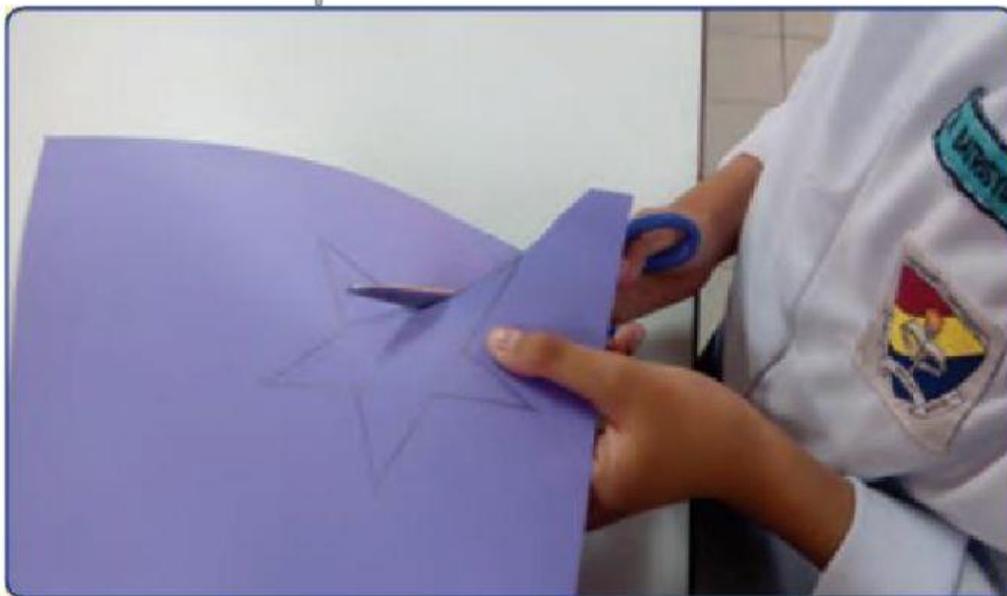## Observe the Clarity of Shadows

Apparatus and Materials

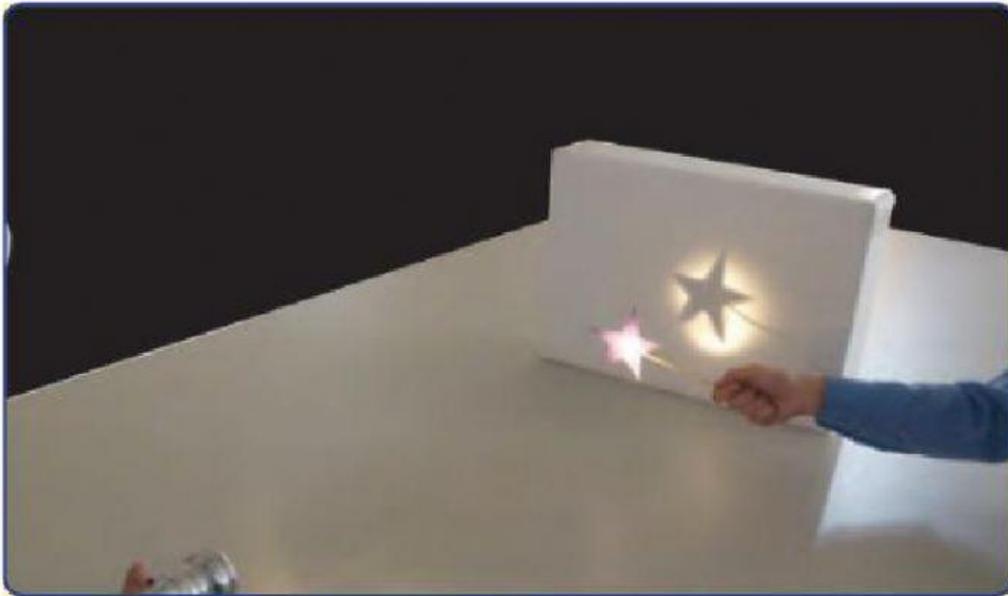| White card	Torch	Pencil
Skewer	Scissors	Adhesive tape
Plastic sheet	Tracing paper	Thick paper

Steps
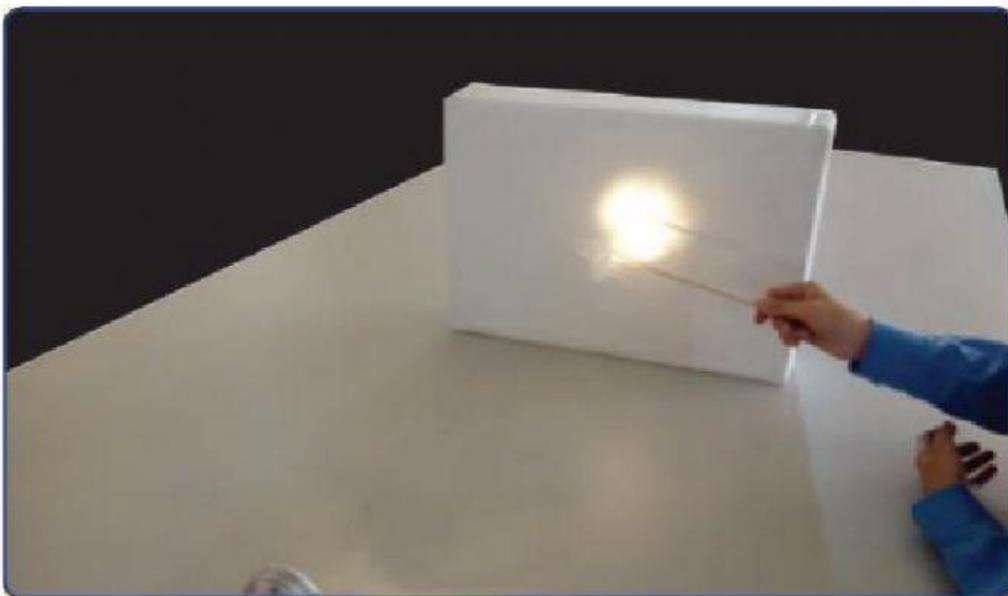
1) Draw the shape of a star on a piece of thick paper.
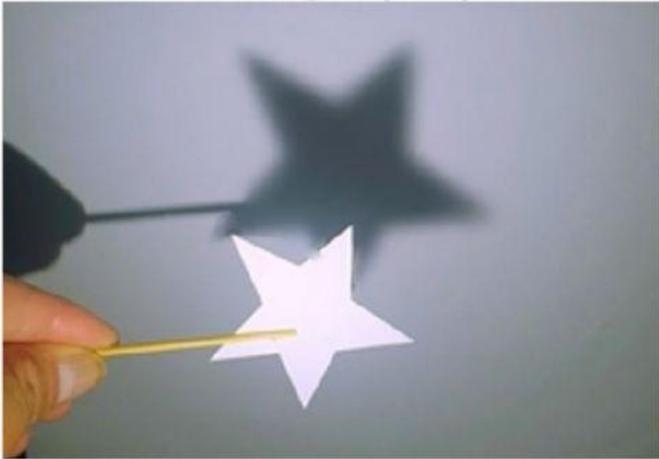

2) Cut and paste it on a skewer.

3) Flash the light on the star. Observe the shadow formed.

4) Repeat steps 1 to 3 using a plastic sheet and tracing paper.

Object	Observation
Plastic sheet	
Tracing paper	
Thick paper	

5) Record your observation in the table as shown below.

Object	Clarity of Shadows
Plastic sheet	
Tracing paper	
Thick paper	

Question

Which object produced the clearest shadow? Why?

Thick paper produced the _____
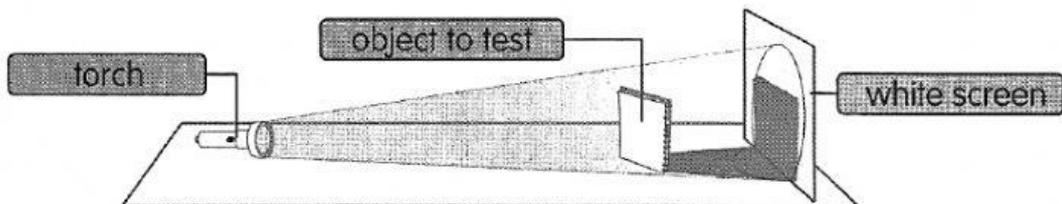
because thick paper _____

light to pass through it.

I Investigate ≫ Observe the Clarity of Shadow

Apparatus and Materials

- white screen
- torch
- objects to test

Steps

1. Arrange the tools and materials as shown.

torch

object to test

white screen

2. Flash the torch onto the notebook.
3. Repeat step 2 using other objects.
4. Record your observation in the table given.

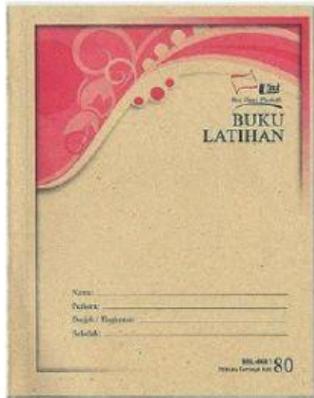| Objects	Clarity of shadows		
	Clear	Less clear	No shadow
Notebook			
Glass bottle			
Pencil			
Plastic ruler			
Transparency			

Questions

1. State an object that has no shadow from the table above.
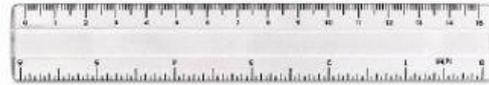
_____

2. Which objects produce clear shadows?

_____

6.1.4

42

Textbook
Pages:
67-68

Objects

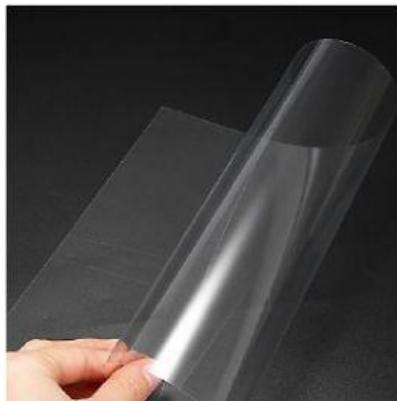|	
Notebook	Glass bottle
Pencil	Plastic ruler

Transparency

Observations

Record the observation in the table below.

Objects	Clarity of Shadows		
	Clear	Less clear	No shadow
Notebook	☐	☐	☐
Glass bottle	☐	☐	☐
Pencil	☐	☐	☐
Plastic ruler	☐	☐	☐
Transparency	☐	☐	☐

Questions

1. State an object that has no shadow from the table above.

   _____

2. Which objects produce clear shadows?

   _____