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الملف Shadows of Clarity and Dark and Light about Worksheet

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# SK CATHOLIC ENGLISH (M) KUCHING

## SCIENCE YEAR 2

**PdPR Week 20**  
**Wednesday 23<sup>rd</sup> June 2021**

### *Unit 6 light and dark*

## **Clarity of Shadows**

Prepared by Cikgu Hamisah

**Watch the Video Lesson below**

www.DUNDICAM.com  
r 2 PdPR Week 20 Wednesday 20.06.2021 Unit 6 Light and Dark Clarity of Shadows  
**Opaque objects do not let any light through them. You cannot see through them. Some examples of opaque objects are:**



**Why is it important that these objects are opaque?**

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?

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Let us carry out an investigation to observe the clarity of shadows.

# INVESTIGATION

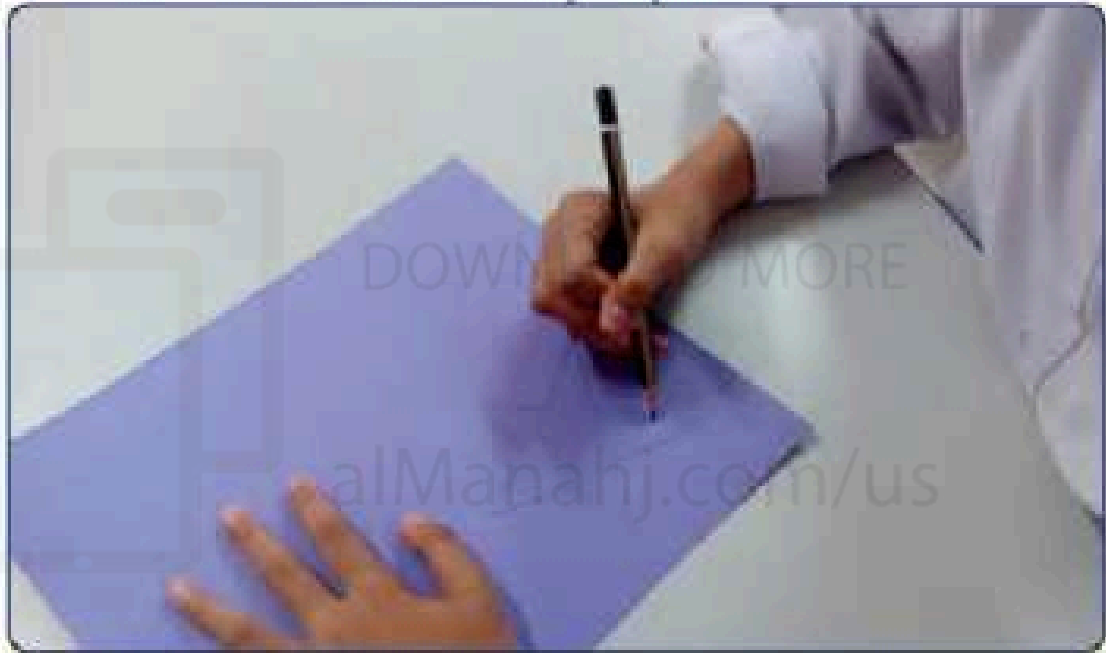
## Observe the Clarity of Shadows

### 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.



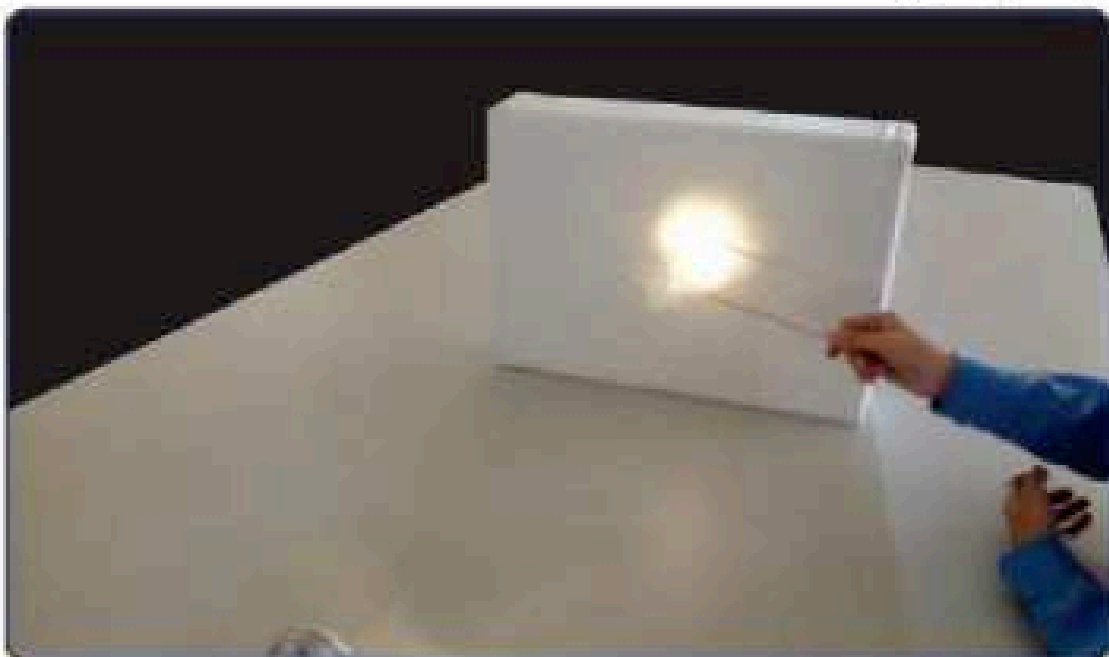
- 2) Cut and paste it on a skewer.



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



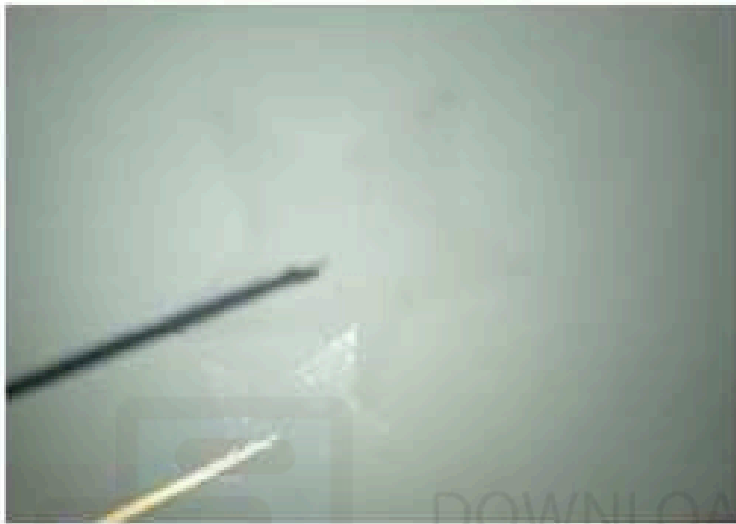
- 4) Repeat steps 1 to 3 using a plastic sheet and tracing paper.



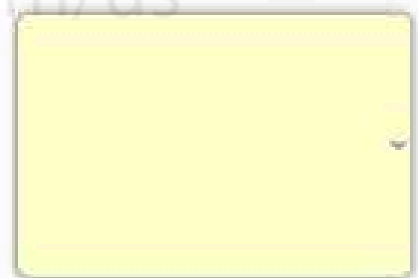
Object

Observation

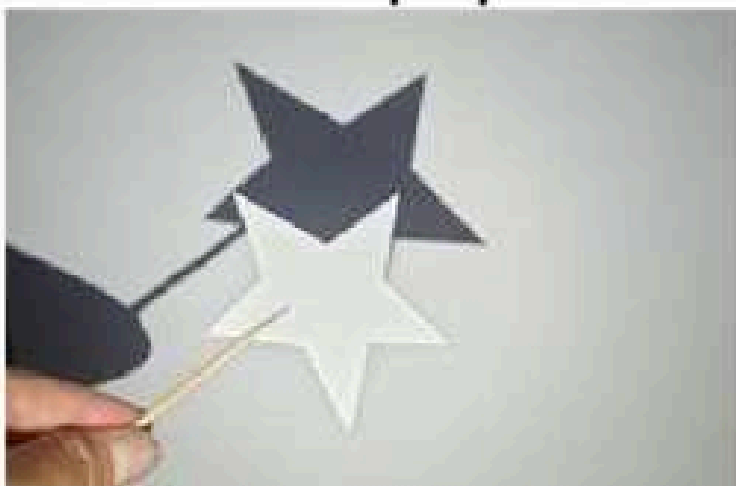
Plastic sheet



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.

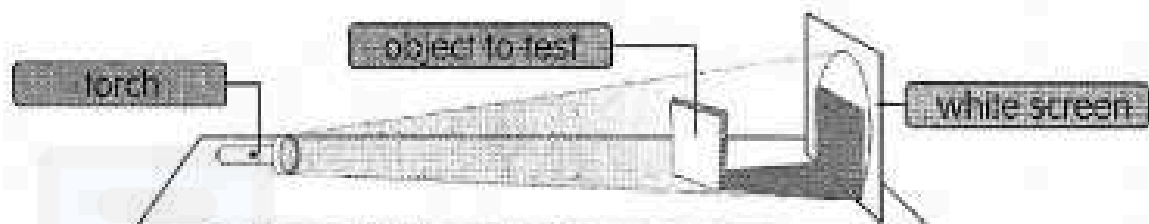
## I Investigate → Observe the Clarity of Shadow

### Apparatus and Materials

- white screen
- torch
- objects to test

### Steps

1. Arrange the tools and materials as shown.



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

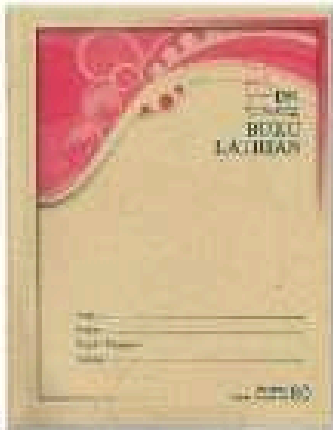
Objects	Clarity of shadows		
	Clear	Less clear	No shadow
Notebook			
Glass bottle			
Pencil			
Plastic ruler			
Transparency			

### Questions

1. State an object that has no shadow from the table above.  
\_\_\_\_\_
2. Which objects produce clear shadows?  
\_\_\_\_\_



# Objects



Notebook



Glass bottle



Pencil



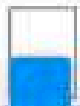




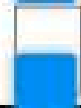

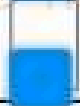







Plastic ruler



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?