

NAME: _____

DATE: _____


HOW DO SHADOWS CHANGE WHEN A LIGHT SOURCE MOVES?

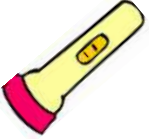

PROCEDURE:

1. SELECT AN OBJECT AND PLACE IT IN THE CENTER OF A WHITE SHEET OF PAPER.
2. HOLD YOUR FLASHLIGHT SO IT LOOKS LIKE THE FIRST PICTURE IN THE DATA TABLE. THE X IS WHERE YOUR OBJECT SHOULD BE.
3. DRAW A PICTURE OF THE OBJECT AND ITS SHADOW IN THE DATA TABLE.
4. REPEAT STEPS 2-3 FOR THE REMAINING ROWS IN THE DATA TABLE. TRY TO KEEP THE DISTANCE BETWEEN THE OBJECT AND THE FLASHLIGHT THE SAME THROUGHOUT THE INVESTIGATION.



DATA TABLE:

WHERE TO PUT THE FLASHLIGHT	DRAWING OF SHADOW AND OBJECT	LENGTH OF SHADOW (CM)
 X		

 X		
 X		
<p><i>YOU CHOOSE! DRAW A PICTURE SHOWING WHERE YOU PLACED THE FLASHLIGHT.</i></p>		
<p><i>YOU CHOOSE! DRAW A PICTURE SHOWING WHERE YOU PLACED THE FLASHLIGHT.</i></p>		

CONCLUSION:

1. WRITE A CLAIM THAT ANSWERS THE QUESTION - HOW DID THE SHADOW CHANGE WHEN YOU MOVED THE FLASHLIGHT? USE EVIDENCE FROM YOUR OBSERVATIONS TO SUPPORT YOUR CLAIM.

CLAIM:

EVIDENCE:

2. GIVEN THE FINDINGS FROM TODAY'S INVESTIGATION, WHY DO YOU THINK THE SHADOW OF YOUR BODY CHANGES DURING THE DAY?
