

FEBRUARY 2021

QUEST

January is a vaccination month.



**“IF A CLUTTERED DESK IS A SIGN OF A CLUTTERED MIND, OF WHAT, THEN, IS AN EMPTY DESK A SIGN?”
ALBERT EINSTEIN**

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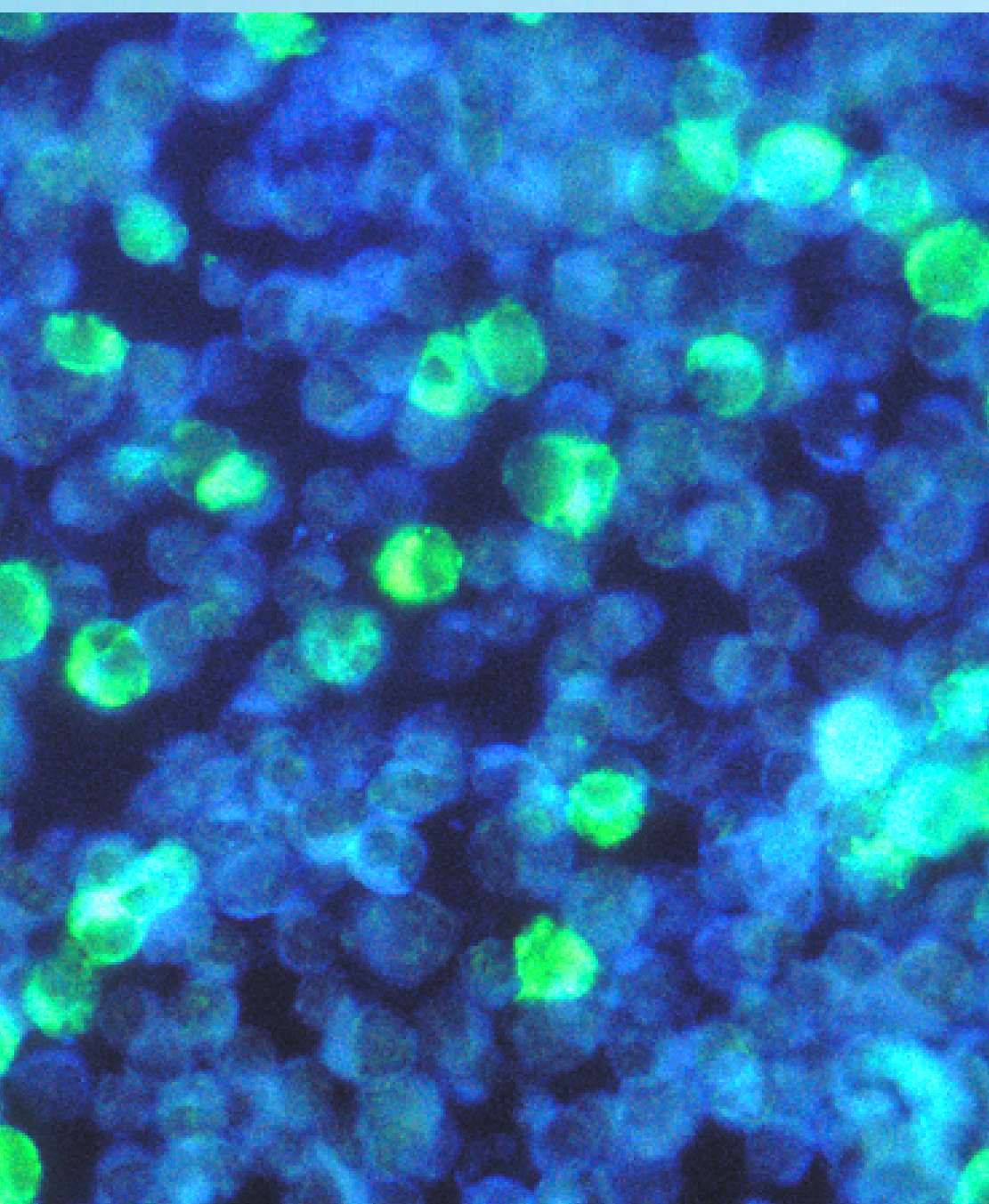


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SYMMETRY

**Symmetry is the untangled mystery
solving its own subset of history;**

**It tells it's side of the story
Leaving the other side
for a perspective to be explored
To search the truth which was ignored.
The conjecture that lied
But nothing to hide.**

**Shapes be selfish to create planes
Of these cross sections
Pressuring a mathematician
To let go of the conventions.
Imaginary spirals and helixes
Creating beautiful menaces.**

– Simran Bhatia



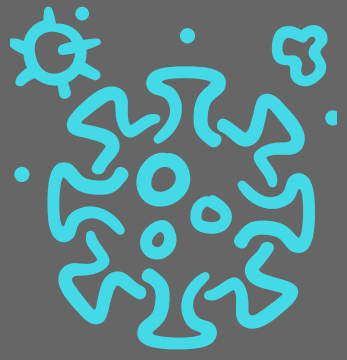
VIDEO GALLERY

**WORLD LEPROSY DAY
TIME TO TAKE ACTION!
~ DR. MANPREET KAUR**

<https://my.visme.co/view/X4E4V98Q-WORLD-LEPROSY-DAY>



CORONA VIRUS – LESSONS FROM THE PAST



BY GAURANSH NARANG, P5-E

Coronavirus is a family of viruses known to affect birds and mammals, including humans. There are about 100 types of coronaviruses, but only 7 of them affect humans and cause upper respiratory infections. Four of them cause flu or mild cold, but other three cause more serious risks. Most humans are likely to develop at least one of these infections in their lifetime, but they manage to recover on their own most of the time:

- Severe Acute Respiratory Syndrome/SARS-CoV – It may have originated in bats and then transferred to animals and humans. Its first human case appeared in Southern China in November 2002. There were 774 deaths and 8000 people in 26 countries were contracted with it.*
- Middle East Respiratory Syndrome/MERS-CoV – In 2012, it originated in camels and then transferred into humans. More than 2400 cases were reported in 27 countries since 2012. Outbreaks of this virus also happened in Korea in 2015 and then in Europe.*
- SARS-CoV 2 – It causes Covid-19 (a new coronavirus) and first appeared in Wuhan, China in December 2019. Within a few months it spread to hundreds of countries and has already resulted in 11 million deaths.*



A similar pandemic also happened around hundred years ago and many more millions of people died from it. After World War 1, in 1919 Spanish flu killed at least 50 million people all over the world. In many places only the rich and middle-class people could afford to go to the doctor. Then, the developed world started building public health systems consisting healthcare agencies and providers/hospitals . The steps taken now to control Covid-19 are similar to those taken back then – social distancing, using masks, canceling public gatherings, closing places of worship and schools, isolating sick people and quarantining those who came in contact with them.

Today, academics and scientists agree that Spanish flu ended when people developed a collective or herd immunity and generally pandemics end when there is no uncontrolled community transmission. Herd immunity happens when many people in a community become immune to an infectious disease and this stops the disease from spreading. Hopefully, this will happen soon and the global pandemic will end.

Sources: Healthline, BBC Future, John Hopkins University, Scientific American and Euronews



VIDEO GALLERY



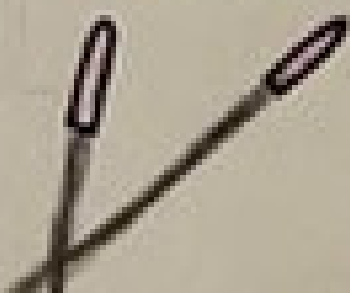
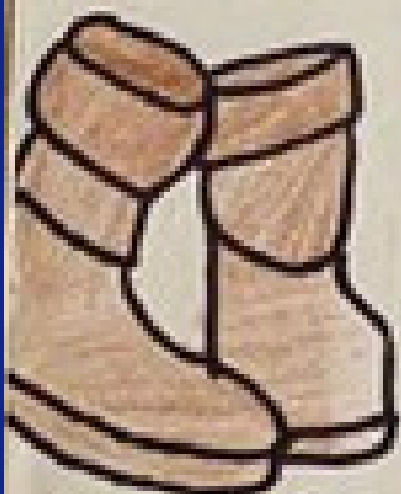
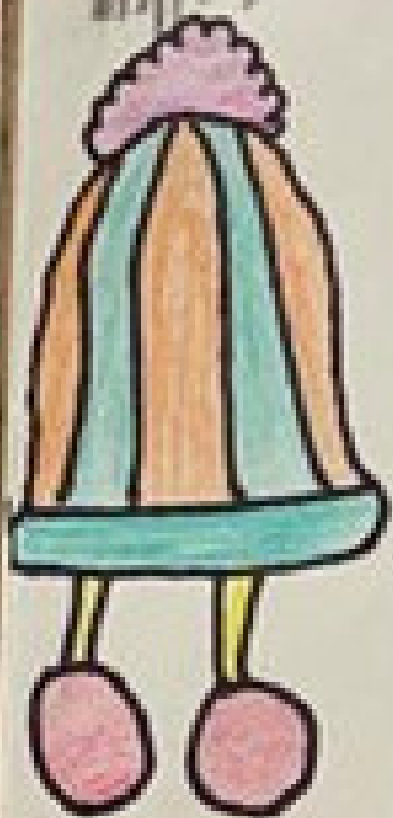
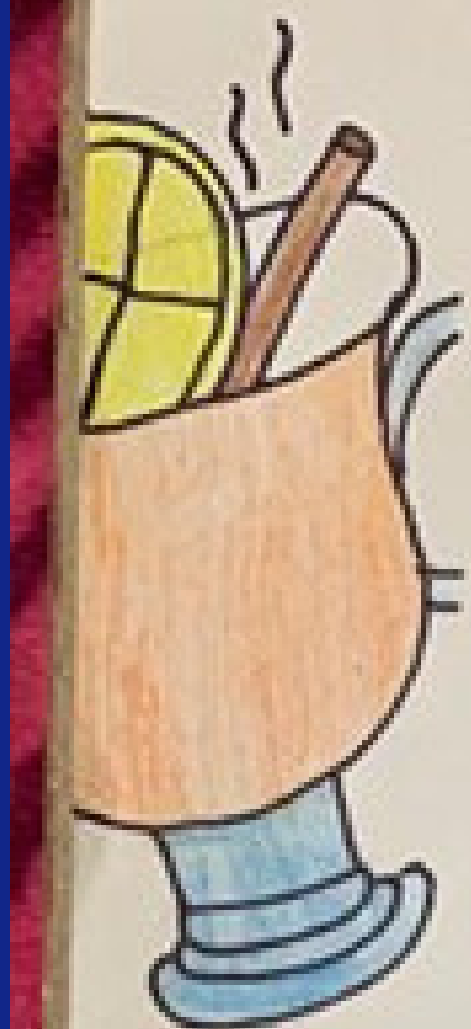
**MOLECULAR
DIMENSIONS
~ PARI MITTAL, S1D**

winters



Stay Warm

SUHANI
RATHI
M1.E



SUHANI RATHI M1E



PARI MITTAL SID

An activity with Light

VASUNDHARA, M3A

This activity may show that the colour we see is not the true colour of a object

Aim:- To show that when light reflects from a opaque objects, it becomes dimmer than the light that fall incidentally

Requirements:- Torch, a wooden table (or any other), a mirror

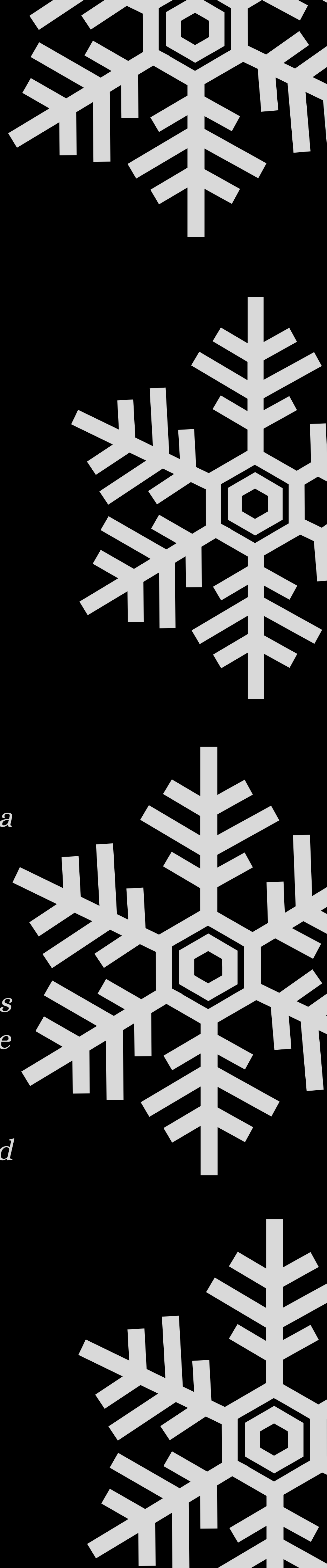
Procedure- (1) Flash a torch on a table

(2) Then, fix that torch in a such way that the light falls on the table falls onto a mirror as shown in the picture

(3) Fix the mirror in a such a way that the light reflected from the mirror falls on a opaque object to see the comparison between the light that fall on the table with the light after getting reflected

(4) Observe which is brighter

Observation:- The light that falls on the table by the torch firstly is brighter than the light that falls on the opaque object after getting reflected by the mirror



Interpretations:- So, why is the sunlight brighter than the moonlight even when the sunlight falls on the moon and gets reflected from it? This is because when light falls on the moon, it merely reflects it because maybe because of two reasons. First is that the light that falls on the moon gets absorbed and then the rest of the light is reflected or because it gets diffused?

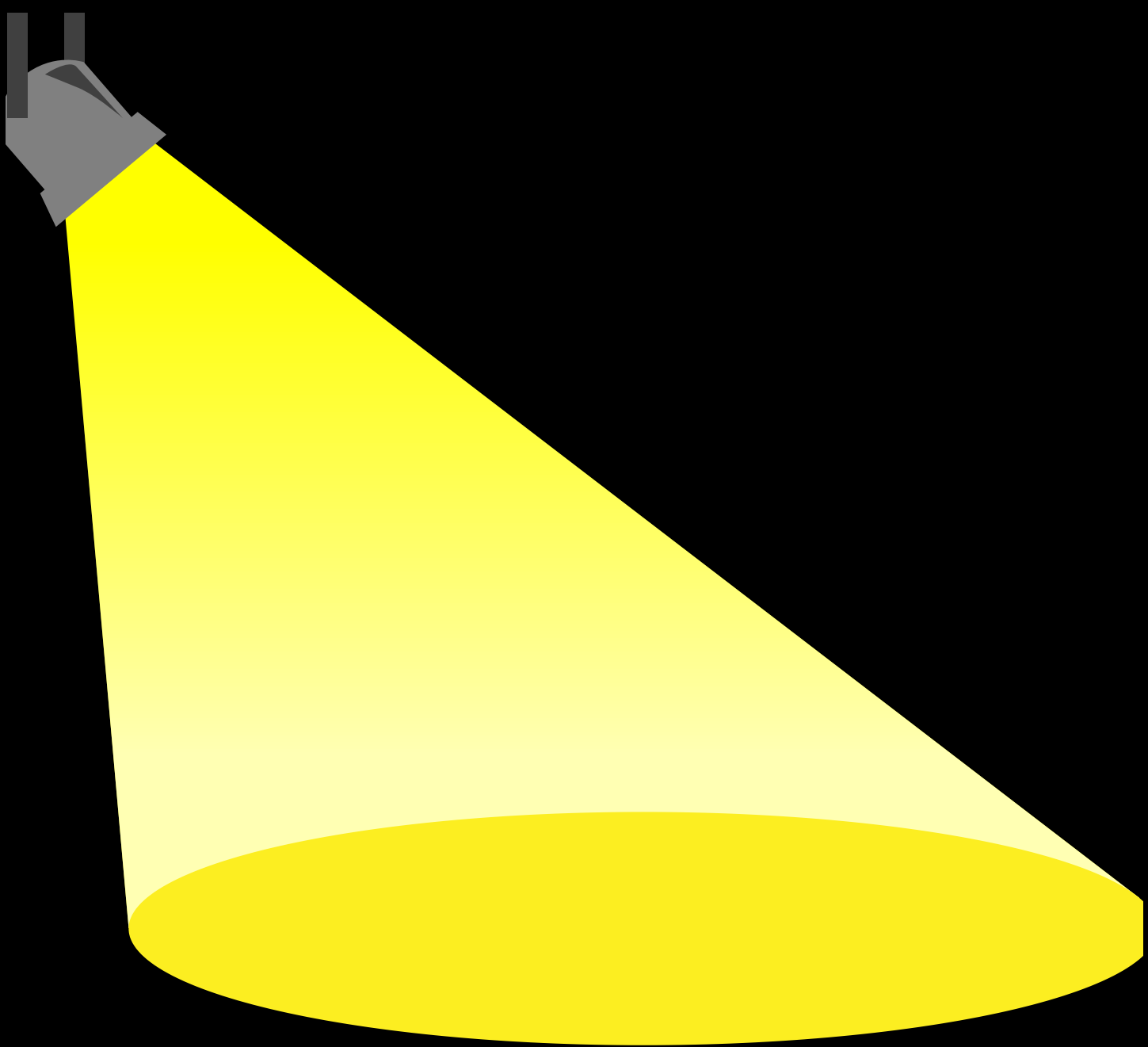
So how is this activity related to the real nature of light? This activity shows that when light falls on a opaque object that is not polished, it gets absorbed or diffused and the rest of the light gets reflected which is dimmer than light that falls incidentally (but not in mirrors). This activity also shows something that is not yet clearly proofed (This is my assumption)



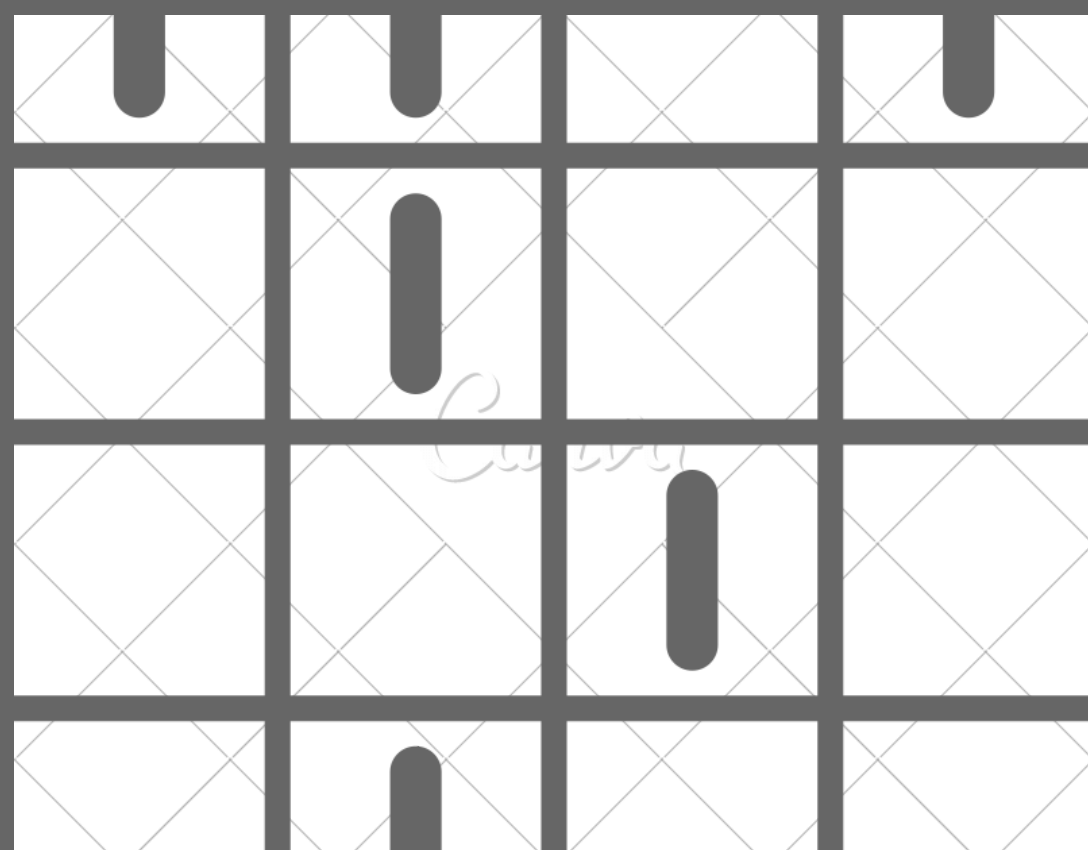
So, according to me, after performing this activity I thought that as Light that reflects from a opaque object is dimmer so can it be that the colour of a object that we see is not the colour of a object in reality? Like the colour yellow. When light falls on it ,It reflect back only some of the light like the the same we saw in the activity. So , the colour yellow can be a darker colour but as it is reflecting only somewhat of the light , its yellow to us.

Example no.2:- Like the colour black .Black is a dark colour so,It can be that as all opaque objects reflects only some of the light that fall on them. Black can be a even darker colour as it reflecting only some of the light.

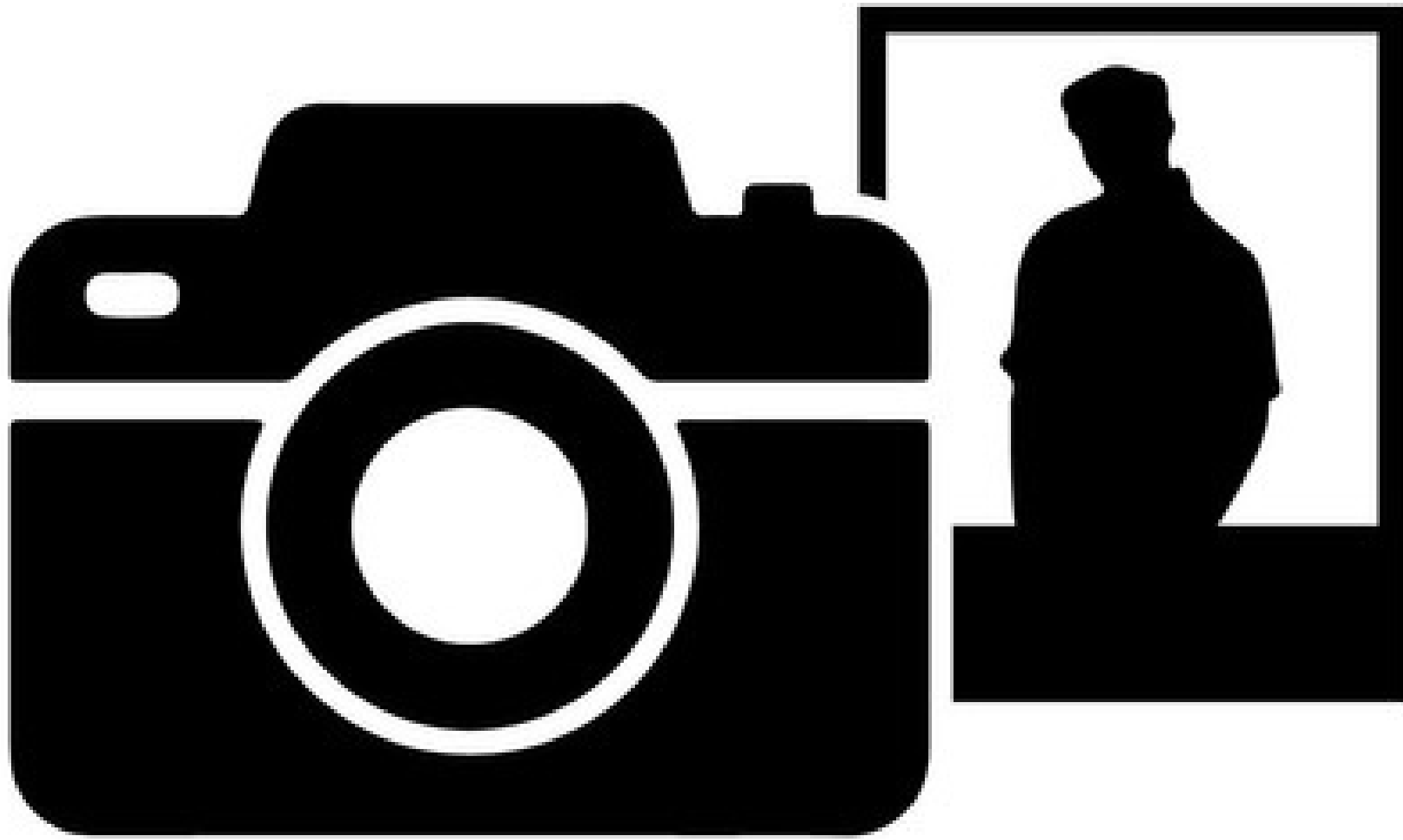
The light after being reflected is dimmer than the light from the torch which fell on the table which may interpret that the colour of a object is not that we see...



SUDOKU



5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9



BRAIN TEASERS

A MAN IS LOOKING AT A PHOTOGRAPH OF SOMEONE. HIS FRIEND ASKS WHO IT IS. THE MAN REPLIES, "BROTHERS AND SISTERS, I HAVE NONE. BUT THAT MAN'S FATHER IS MY FATHER'S SON." WHO WAS IN THE PHOTOGRAPH?



BRAIN TEASERS

I LEFT MY CAMPSITE AND HIKE SOUTH FOR 3 MILES. THEN I TURNED EAST AND HIKE FOR 3 MILES. I THEN TURNED NORTH AND HIKE FOR 3 MILES, AT WHICH TIME I CAME UPON A BEAR INSIDE MY TENT EATING MY FOOD! WHAT COLOR WAS THE BEAR?

FEBRUARY 2021

**Somewhere, something incredible
is waiting to be known.**

Carl Sagan

