



#### **Overview**

Light - Key Terms



Dark - No light.

Reflection

light bounces off the object, sending

it in another direction.

examples of materials/objects that

reflect light include mirrors or

polished metal surfaces.

- Human vision is unable to see colours when there is high levels of darkness

- At nighttime, the sky is darker because there is a lack of light from the sun.

(too little light).

#### -Light is a form of energy that makes it possible to see.

Light is given off some objects (for example the Sun).

Darkness is when there is no light.

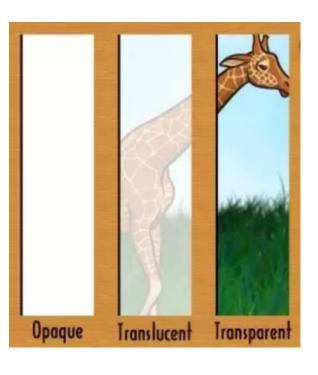
-Light can reflect off surfaces (e.g. mirrors)

-Objects can be labelled as transparent, translucent, or opaque, depending on the amount of light that they let through.

-Shadows are formed when light is blocked by an opaque object.

## **KNOWLEDGE ORGANISER**

### **Transparent, Translucent and Opaque**



# them.

Translucent – only some light passes through. We can partially see through them.

Absorption					
- light is absorbed into the object.	Protection from Light				
-light doesn't bounce off or pass through the object.	Sunlight can be dangerous for our eyes and skin. The light contains cause damage.				
- examples of materials/objects that absorb light include wood, brick and stone.		1. Wearing sunglasses – to re of light (and also the UV ray			
Transmission	91. 10	eyes.			
- light passes through the object. It can be seen from the other side of		2. Covering up – clothes bloc			
it can be seen nom the other side of		ravs that can damage our st			

the object.

- examples of materials/objects that transmit light include windows and clean water.

ock some of the UV rays that can damage our skin.

3. Sun cream -stops our skin from absorbing as many UV rays, protecting it from harm.

Assessment question: How does light reflect off different surfaces?

Transparent C	<b>)</b> bjects			Translue	cent Objects		
Windows	Water	Air	Frosted Glass	Tracing Paper	Flower Petals	Plastic Milk Carton	Table



Transparent – all of the light passes through We can clearly see through

Opaque – no light to passes through. We cannot see through them at all.

ns UV rays that can

educe the amount ays) that reaches our

#### **Opaque Objects**

Sofa

**Brick**