## What Happens When Light Hits an Object?

on we see an object is because the object can do the following with light:	/	
	am	
on	วท	

Α	n	c	റ	r	n	ŤΙ	റ	n
_	v	J	v		v	u	·	

<ul> <li>Absorption is the process in which light energy remains in an and is converted into</li> </ul>
Objects appear the they are because they absorb all colours of the
<ul> <li>spectrum the one our eyes see (it is reflected)</li> <li>The black 'E' below appears black because it absorbs all of the light that hits it (no light hits your eyes)</li> </ul>
Transmission
<ul> <li>Transmission is the process in which light travels through an object and continues travelling</li> <li>Different objects transmit different amounts of light</li> <li>There are 3 ways to describe transmission:</li> <li></li></ul>
Transparent
<ul> <li>If light is transmitted directly through an object without any change in direction, the object is</li> <li>i.e</li> </ul>
Translucent
<ul> <li>If light can penetrate an object but it is scattered in many directions, the object is</li> <li>i.e</li> </ul>
Opaque
<ul> <li>If an object absorbs or reflects light only and no light penetrates it, the object is</li> <li>i.e</li> </ul>