| | Topic: Light | Year: 6 | | Strand: Physics |
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| What should I already know? | | | Vocabulary | |
| Some things produce light, usually by burning (the sun) or electricity (street lights) (Y3) Shiny materials do not make light, but do reflect it (Y2) Shadows are caused when certain materials block | | angle | the direction from which you look at something | |
| | | dark | the absence of light | |
| light (YI) Light travels in straight lines. When light is blocked by an opaque objects, a dark shadow is formed (Y3) The further away the light source, the smaller the shadow. The closer the light source, the bigger the shadow (Y3) | | | dim | light that is not bright |
| | | | electricity | a form of energy that can be carried by wires and is used for heating, lighting and provides power for ma- chines |
| | | | emits | to emit a sound or light means to produce it |
| | at will I know by the end of the unit? | | light | a brightness that lets you see |
| How does light travel? What | Lights travels in a stra | straight line. | | things |
| | When you place a torch or a dark room, the beam tro straight line. | | light rays | light travelling in any direction, in a straight line |
| | | | light source | something that makes light, whether natural or artificial |
| | Reflection is when light bounces off | matt | not shiny and does not reflect light | |
| | a surface—this changes the direc- tion in which light travels. | | mirror | a flat piece of glass which reflects light. When you looked at it you can see yourself reflected |
| is the rela- tionsh ips be- tween light source s and shad- ows? | Because light travels in straight lines, when there is an opaque ob- ject blocking the light, a shadow if formed. These shadows have the same shape as the objects that cast them. | <i>о</i> радие | if an object or substance is opaque, you cannot see through it | |
| | | reflects | send back waves of light rom the surface and not pass through it | |
| | | | shadows | a dark shape on a surface that is made when something stands be- tween a light and the surface |
| | | ys of light | shiny | things that are bright and reflect light |
| | | Shadow | source | where something comes from |
| | | straight lines | a line with no curves | |
| | | surface | the flat top part of something or the outside of it | |
| | | torch | a small electric light which is pow- ered by batteries | |
| | | | translu- cent | if a material is translucent, some light can pass through it |
| | | transpar- ent | if an objects or substance is trans- parent, you can see through it | |
| How do we see? | Light travels in a stroight line and hits the apple. | The ray of light is reflected off the apple and travels in a straight line to the eye allowing it to see the apple. | | |