

Energy Forms—Light and Heat

Note-taking Guide – Answer Key

opaque, bends, heat, melt, larger, blocked, thermal, curved, light, photosynthesis, microscopes, transparent, solar, solid, straight

Energy from the Sun is called solar energy. The Sun provides our Earth with both light and heat energy. Plants use solar energy to make their own food in a process called photosynthesis.

Light is a form of energy that helps us to see.

Light rays travel in straight lines.

Light rays pass through matter that is transparent, or that we can see through, such as this fish tank.

Light rays are blocked by matter that is not transparent, such as this wooden cabinet. This kind of matter is called opaque matter.

Light bends as it passes through certain types of transparent matter.

Light passing through curved glass makes objects look larger than their actual size. Microscopes, magnifying glasses, and spectacles all use curved glass so that small objects and organisms look much larger than they are!

Ziggy is still fast asleep in the warm afternoon Sun. The energy that's keeping her warm is called thermal energy or heat.

Look at this ice cube.

The ice cube is cold and solid. Soon, heat energy from the hand will cause the solid to melt into a liquid.