Simon Asks, "What Is Heat?"

Level H/I

Written and Illustrated by Travis Schaeffer

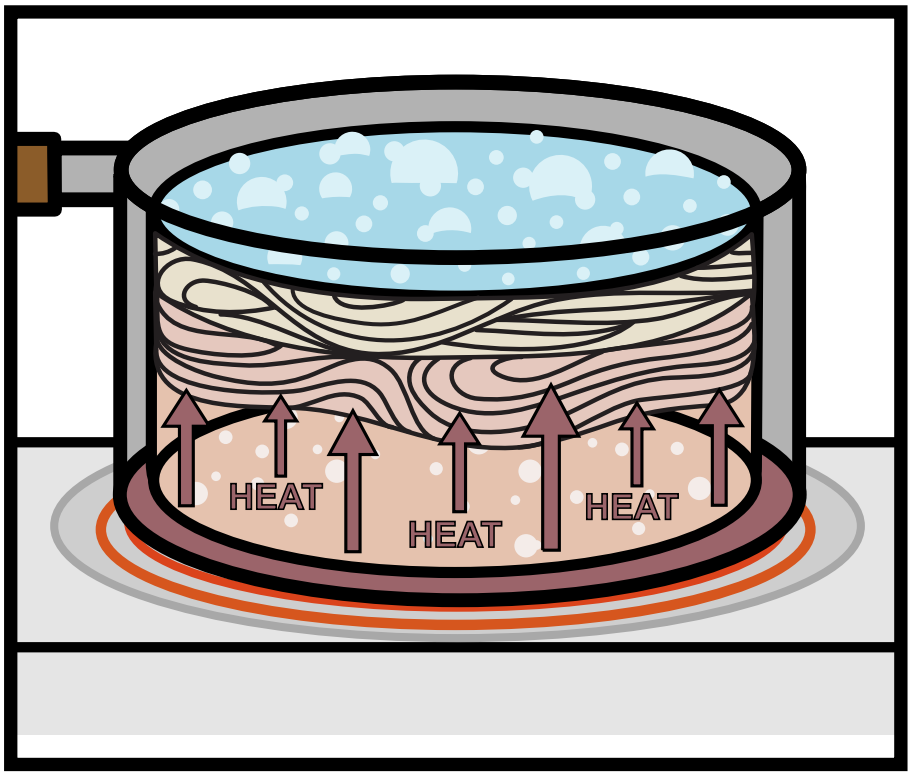
Simon is learning about energy.

Energy is a force or power. Today he is learning about heat. Heat is a form of energy. Heat is warm. Many other types of energy can change into heat.

Light energy can make heat. Simon looks at the Sun. Light from the Sun gives heat to the Earth. The Sun has been shining all day today. Simon feels warm when he is outside. This is heat!

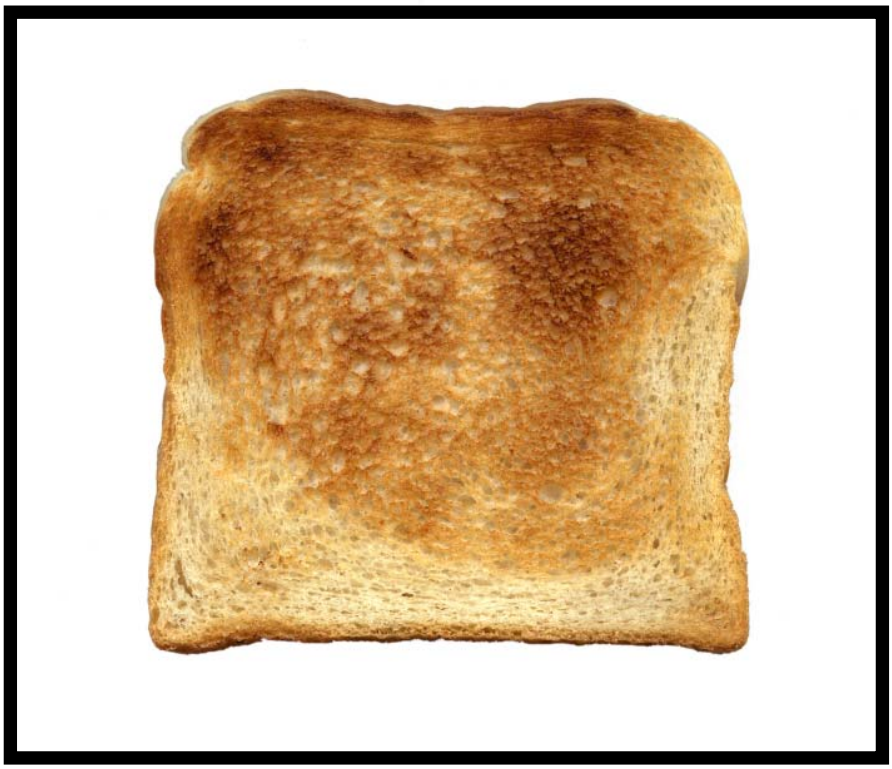
Mechanical energy can make heat.

Mechanical energy comes from things that are moving. Simon goes for a run through the park. Running is a fast way of moving. Simon is hot after running. This is heat!



Thermal energy can make heat.

Thermal energy is when one object heats another object. Simon is cooking water on the stove to make spaghetti. Heat from the stove goes to the water in the pan. The water is boiling hot. This is heat!



Electrical energy can make heat.

Simon plugs in the toaster. The toaster is getting electrical energy to work. Simon puts bread in the toaster. When it pops up, the bread is toasty and warm. This is heat!

Chemical energy can make heat.

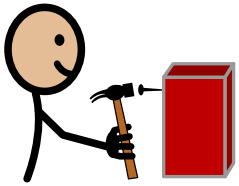
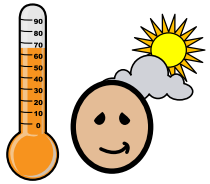
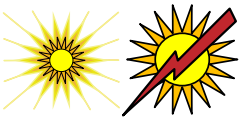
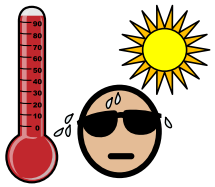
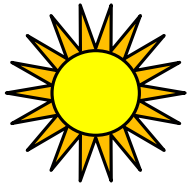
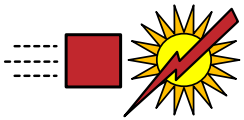
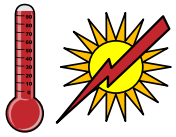
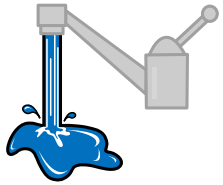
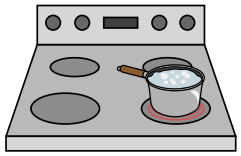
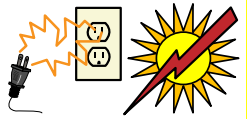
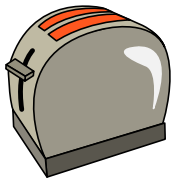
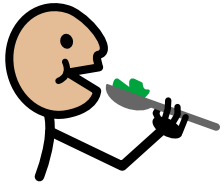
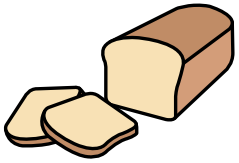
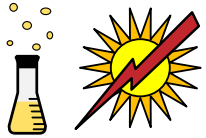
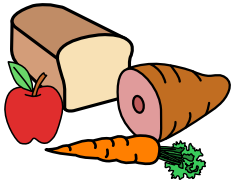
Simon eats his dinner. The food changes in his body to make energy. The food changes in his body to keep him warm. This is heat!

Simon has learned a lot about heat energy. Heat helps him in many ways. Can you think of other ways we get energy and heat in our day?

yes

Simon Asks, "What Is Heat?"

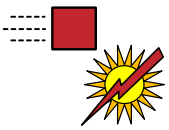
no

make 	warm 	Simon 	energy 	heat 	light energy 
move / run 	hot 	Sun 	mechanical energy 	thermal energy 	object 
boil 		water 	stove 	electrical energy 	toaster 
eat 		bread 	chemical energy 	food 	body 

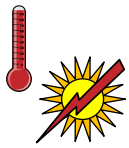
Glossary

energy - a force or power

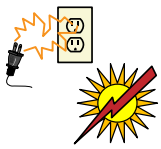
light energy - energy from light



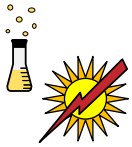
mechanical energy - energy made from motion and position



thermal energy - energy transfer of heat from one object to another



electrical energy - energy made from a flow of electric charges



chemical energy - energy released by a chemical reaction

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