

Heat and Temperature Practice Quiz Topic 1 - Using Energy from Heat

1. This type of Thermal Energy source can be used to cook food, but they are hard to control, dangerous and messy.
open fires

fireplaces

pioneer stove

modern gas stove
2. New technologies have been developed to provide thermal energy, without scorching your body. One of these has micro sensors that work like invisible thermostats, that measure the temperature of different parts of your body and generates thermal energy accordingly. This technology is ...
still in the development stage

found only in research labs

an electric blanket

thermal underwear
3. A technology that has replaced boiling water over an open campfire gives us a warning when the water has boiled. This technology is ...
a micro-sensing digital boiler

a solar powered water heater

an electric kettle

a hot water heater

4. Choose the technology that you would need so that you could heat a large room in your house, and maintain a constant comfortable temperature in that room.

a gas furnace

a wood-burning fireplace

an electric fireplace

a digital thermostat

5. Overheating can be a problem for hand-held hair dryers. A device, that is used to shut off the thermal energy when it gets too hot, is needed. This device is ...

automatically controlled

the heating element

the fan

a button on the hair dryer

Check [Answers](#)

Heat and Temperature Practice Quiz **Answers** Topic 1 - Using Energy from Heat

1. This type of Thermal Energy source can be used to cook food, but they are hard to control, dangerous and messy.

open fires (Text p. 188) Figure 3.1A

fireplaces

pioneer stove

modern gas stove

2. New technologies have been developed to provide thermal energy, without scorching your body. One of these has micro sensors that work like invisible thermostats, that measure the temperature of different parts of your body and generates thermal energy accordingly. This technology is ...

still in the development stage

found only in research labs

an electric blanket (Text p. 190) Check out [Cool Tools](#)

thermal underwear

3. A technology that has replaced boiling water over an open campfire gives us a warning when the water has boiled. This technology is ...

a micro-sensing digital boiler

a solar powered water heater

an electric kettle (Text p. 190) This technology provides a 'whistling' sound when the water has boiled

a hot water heater

4. Choose the technology that you would need so that you could heat a large room in your house, and maintain a constant comfortable temperature in that room.

a gas furnace

a wood-burning fireplace

an electric fireplace

a digital thermostat (Going beyond this Topic) This is introduced in Topic 2 (p. 199)

5. Overheating can be a problem for hand-held hair dryers. A device, that is used to shut off the thermal energy when it gets too hot, is needed. This device is ...

automatically controlled (Text p. 190) The hair dryer shuts off automatically when it gets too hot

the heating element

the fan

a button on the hair dryer