

Why a Metal Spoon Warms Up

Name _____

Date _____

Fill in the gaps so that the text makes sense.

When a metal spoon is placed in hot soup, the end under the surface warms first. Fast-moving particles in the soup bump into particles in the spoon and pass on some energy. This transfer from the hotter soup to the cooler spoon is called _____ .

Metal conducts heat well because energy travels through it easily. As the spoon stirs, its bowl meets the hot liquid, but the _____ , which is held by the hand, may stay above the surface and still become warm. Energy moves along the spoon from its hot end towards its cooler end.

Eventually, if the soup and spoon are left together, their temperatures move closer to being _____ . At that point, there is no overall heat transfer between them because neither is hotter.