

Heat Transfer Practice

Identify which of the three forms of energy transfer has occurred in each example below

- | | |
|---|-----------------------|
| 1.) Toaster toasting bread | <u>E.M. Radiation</u> |
| 2.) Steam rising from a dishwasher | <u>Conduction</u> |
| 3.) Heat from an electric radiator | <u>E.M. Radiation</u> |
| 4.) Boiling water on the stove | <u>Conduction</u> |
| 5.) Hot air balloon | <u>Convection</u> |
| 6.) Heat coming from a light bulb | <u>E.M. Radiation</u> |
| 7.) Burning your hands on a hot pan | <u>Conduction</u> |
| 8.) Ironing clothes | <u>Conduction</u> |
| 9.) Heat coming off a hot car | <u>Convection</u> |
| 10.) Warming your hands on a hot mug | <u>Conduction</u> |
| 11.) Feeling cold when you jump into a pool | <u>Conduction</u> |
| 12.) Heat coming from the asphalt on a hot day | <u>Convection</u> |
| 13.) Hot air coming from an oven when you open the door | <u>Convection</u> |
| 14.) Your body warming a chair | <u>Conduction</u> |
| 15.) An ice cube melting in your hand | <u>Conduction</u> |
| 16.) Hot gases rising from a volcano | <u>Convection</u> |
| 17.) Steam rising from a pot of soup | <u>Convection</u> |
| 18.) Heat rising from the dryer when the door is opened | <u>Convection</u> |
| 19.) Heat from the sun | <u>E.M. Radiation</u> |
| 20.) Frying bacon in a skillet | <u>Conduction</u> |
| 21.) Holding hands and getting "sweaty palms" | <u>Conduction</u> |
| 22.) Steam rising from a geyser | <u>Convection</u> |