

1. Energy of heat (thermal energy) travels from \_\_\_\_\_ to \_\_\_\_\_ temperature.
2. The process by which heat moves from one material to another we call it a h\_\_\_\_\_ t\_\_\_\_\_.

**3. The transfer of heat by direct contact we call:**

4. Can conduction happen within an object? Yes or No?
5. All atoms move, so they have what kind of energy?
6. When hotter atoms c\_\_\_\_\_ they transfer their energy to colder atoms. (Like with bumper cars.)
7. Which is a better conductor of heat, gases or solids?
8. This is why we use materials with \_\_\_\_\_ pockets to keep things hot.
9. Something that conduct heat easily are called:
10. Something that conducts heat poorly are called:
11. Materials that are good conductors of heat are also good conductors of e\_\_\_\_\_.
12. How is most of the energy lost from houses?

**13. The transfer of heat by currents in fluids is called:**

14. A fluid is either a l\_\_\_\_\_ or a g\_\_\_\_\_.
15. Convection currents in our atmosphere are responsible for most of the w\_\_\_\_\_ of the world.
16. (p. 463) Does heat rise or does hot air rise?
17. Why do birds fluff up their feathers?

**18. (p. 466) The transfer of heat by electromagnetic waves is called:**

19. Thermal conduction and convection need matter (solids, liquids, or gases) to transfer heat. But thermal radiation from the sun can travel through space, which is called a v\_\_\_\_\_.
20. Which has more energy, hot or cold objects?
21. The coolest stars are what color?