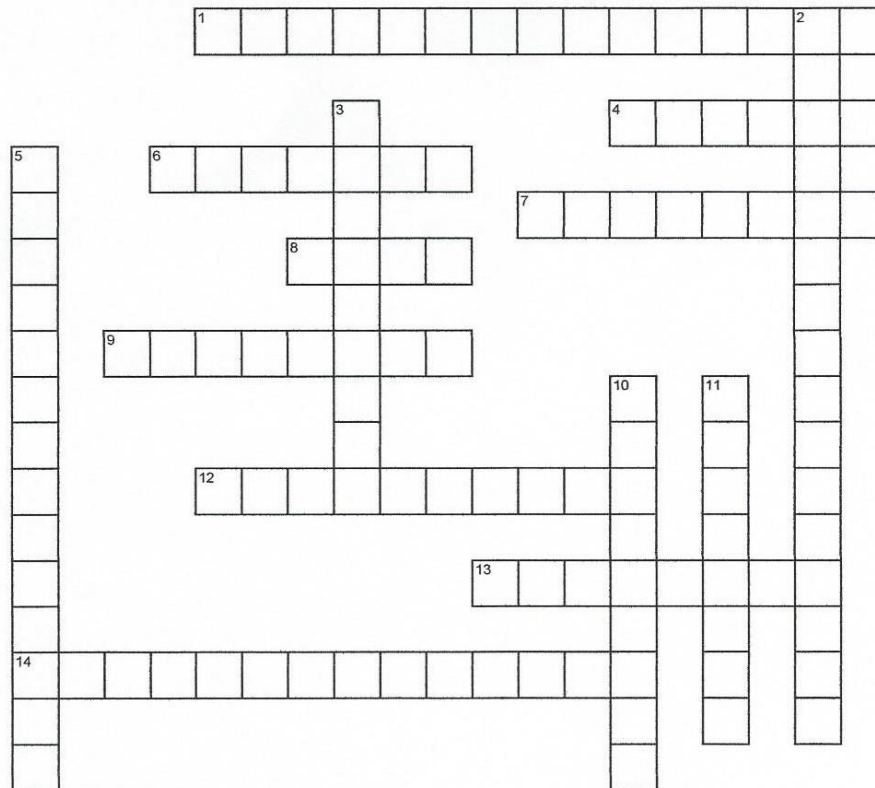


**Normal or Abnormal**

**Directions:** Use the highlighted terms in the chapter to solve the puzzle. Most clues come from the chapter text, but some require outside investigation. Omit spaces or dashes between words.



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**ACROSS**

- 1 our natural control system which readies us to sleep each night
- 4 the last name of the doctor who in 1993 discovered how to double the lifespan and quality of life of a worm
- 6 to remove or pull out, such as our bodies removing energy from our food
- 7 the phase of sleep where rapid eye movement occurs; the portion of sleep when we dream
- 8 a piece of genetic material that can be altered, or modified, to change the genetic code of a species
- 9 to influence or change controls, such as changing the lifespan of a human
- 12 device sensing temperature change and sending signal to furnace to send heat
- 13 units of heat energy
- 14 a system having set inputs but no measure of the output and no ability to compensate for external factors

**DOWN**

- 2 a system that measures its output, compares measurement to a set desired point, then uses that difference to dictate what happens next
- 3 an electronic device controlling the beating of the heart
- 5 the study of the way the body regulates its autonomic functions
- 10 a medicine used in the treatment of diabetes that appears to have the potential of slowing down the aging process in humans
- 11 type of animal incapable of REM sleep