Body Systems: Key Concepts and Comparisons (Life 9th Edition)

[Temperature regulation, gas exchange, circulation, digestion, excretion and osmoregulation, defenses]

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| **TOPIC** | **PAGES** | **NOTES** |
| 40.2 | How does temperature affect living systems? | 838-839 (2 pages) |  |
| 40.3 | How do animals alter their heat exchange with the environment? | 839-844 (5) |  |
| 40.4 | How do mammals regulate their body temperatures? | 844-848 (5) |  |
| 49.1 | What physical factors govern respiratory gas exchange? | 1026-1028 (3) |  |
| 49.2  | What adaptations maximize respiratory gas exchange? | 1029-1033 (5) |  |
| 50.1 | Why do animals need a circulatory system? | 1046-1048 (3) |   |
| 50.2 | How have vertebrate circulatory systems evolved? | 1048-1050 (3) |   |
| 51.2 | How do animals ingest and digest food? | 1074-1076 (3) |  |
| 52.1 | How do excretory systems maintain homeostasis? | 1091-1094 (3) |  |
| 52.2 | How do animals excrete nitrogen? | 1094-1095 (2) |  |
| 52.4 | How do vertebrates maintain salt and water balance? | 1097-1100 (3) |  |
| 42.1 | What are the major defense systems of animals? | 873-876 (3) |  |
| 42.2 | What are the characteristics of the nonspecific defenses? | 877-880 (4) |  |
| 42.3 | How does specific immunity develop? | 880-884 (5) |  |
| 42.7  | What happens when the immune system malfunctions? | 894-896 (3) |  |
| 39.1 | How do plants deal with pathogens? | 814-818 (4) |   |

**\*\*\*While you are reading, don’t get bogged down in the details. Keep your eye on the big picture concepts and comparisons. Use the study questions and learning objectives to help guide you.\*\*\***

Unit Test target date = Wednesday 3/18/15