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) |  |
| 52.3 | How do invertebrate excretory systems work? | 1095-1097 (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) |  |
| 42.5 | What is the cellular immune response? | 887-891 (4) |  |
| 42.7  | What happens when the immune system malfunctions? | 894-896 (3) |  |
| 39.1 | How do plants deal with pathogens? | 814-818 (4) |   |
| 39.2 | How do plants deal with herbivores? | 819-823 (5) |   |

**\*\*\*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 curriculum to help you.\*\*\***

Unit Test target date = Monday 3/17/14