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| **Class: Biology**  **Teacher: Carolyn Brooks**  **Phone: (502) 330-0912**  **Email:** [**carolyn.jckamp@gmail.com**](mailto:carolyn.jckamp@gmail.com)  **Textbook: Apologia Exploring Creation Through Biology 2nd Edition, Wile and Durnell**  **Required Materials: text, paper, pencil, handouts M – Denotes Days Microscopes are needed** | | | | |
| **Week** | **Date** | **Text Reading** |  | **Activities in Class** |
| 1 | 8/18 | M1: Biology pp. 1-32 | M | * 1. Intro to Microscope 1.1 Biological Key |
| 2 | 8/25 | M2: K Monera pp. 37-62 | M | Prepare Slides 2.2 & 3.1 View Pond Cultures |
| 3 | 9/1 | M3: K Protista pp. 67-80 | M | 3.2 SubK Protozoa: amoeba, paramecium, euglena, volvox |
| 4 | 9/8 | M3: K Protista pp. 81-92 | M | 3.3 SubK Algae: spirogyra, diatoms |
| 5 | 9/15 | M4: K Fungi pp. 97-111 | M | 4.1 P Basidiomycota: mushrooms 4.2 Ferment Yeast |
| 6 | 9/22 | M4: K Fungi pp. 111-120 | M | 4.3 Bread & Jelly Molds 4.4 Cheese Molds |
| 7 | 9/29 | M5: Bio-Chemistry pp 125-138 |  | 5.1 Diffusion vs.5.2 Osmosis |
| **FALL BREAK** | | | | |
| 8 | 10/13 | M5: Bio-Chemistry pp 139-156 |  | 5.3 Fragility of Enzymes |
| 9 | 10/20 | M6: Cells pp 161-175 | M | 6.1 Onion, cork, hydra |
| 10 | 10/27 | M6: Cells pp. 175-181 | M | 6.1 ranunculus root & Zea mays root |
| 11 | 11/3 | M6: Cells p181-189 | M | 6.2 Anacharis (water weed), banana |
| 12 | 11/10 | M7: Repro/DNA p195-205 |  | 7.1 DNA Extraction |
| 13 | 11/17 | M7: Repro/DNA p205-222 | M | 7.2 Mitosis: allium, ascaris |
| 14 | 11/24 | M8: Genetics p227-242 |  | Punnett Squares 8.1 Ear Lobe Pedigree |
| **CHRISTMAS BREAK** | | | | |
| 15 | 1/5 | M8: Genetics p242-256 |  | 8.2 Dihybrid Cross |
| 16 | 1/12 | M9 & M10 Evolution & Ecology p261-324 |  |  |
| 17 | 1/19 | M11: Invertebrates p328-342 | M | Sponge & 11.3 Worm Dissection |
| 18 | 1/26 | M11: Invertebrates p342-356 |  | Starfish & Mussel Dissection |
| 19 | 2/2 | M12: P Arthropoda p361-375 |  | 12.1 Crayfish Dissection |
| 20 | 2/9 | M12: P Arthropoda p376-389 |  | Fig. 12.9 Grasshopper Dissection |
| 21 | 2/16 | M13: P Chordata p393-419 |  | 13.1 Perch Dissection |
| 22 | 2/23 | M13: P Chordata p419-423 |  | 13.2 Frog Dissection |
| 23 | 3/2 | M14: K Plantae p429-447 |  | 14.1 Leaf Classification 14.2 Anthocyanins |
| 24 | 3/9 | M14: K Plantae p448-458 | M | 14.3 Cross Section Zea mays & Ranunculus |
| 25 | 3/16 | M15: K Plantae p463-479 |  | 15.1 Flower Anatomy |
| 26 | 3/23 | M15: K Plantae p480-490 |  | 15.2 Fruit Classification |
| 27 | 3/30 | M16: Mammals p495-517 |  | Pig Dissection |
| 28 | 4/6 | M16: Mammals p518-526 |  | Pig Dissection |
| Make-up | 4/13 |  |  |  |