**Biology Course Syllabus**

Course: Biology Instructor: Mr. Palmer

Room: (BASR Room until September 28), S505

Phone: (438-4137 until September 28), 438-4113 (S505)

Email: [dpalmer@tps501.org](mailto:dpalmer@tps501.org) Biology Class Website: <http://www.twhspalmer2015.weebly.com>

**Biology Textbook Online Access:** Go to [www.pearsonsuccessnet.com](http://www.pearsonsuccessnet.com)

**Username: Chaz2015 Password: gotopeka7**

**Course Description**: This course will emphasize the scientific method, inquiry, and problem solving through the study of biology. Topics will include basic chemistry, ecology, cells, genetics, evolution, classification and the kingdoms.

**Daily Class Materials**:

* + - Three-Ring notebook to be kept in the class. This worksheet is page 1 of your notebook and the Lab Safety Worksheet will be page 2.
    - Colored Pencils
    - Writing instrument—pencil or pen

**Grading Policy**:

* + Students earn grades for participation in class, openers, taking notes, labs, assignments, quizzes, and tests. Grades will reflect the mastery of the skills and content taught.
  + There will be two outside class projects, one each semester, Cell Model and DNA Model.
  + We will be doing close readings using interactive readers and other materials.
  + We will have article summaries and reactions at least once per quarter.

Scale: **A** 100-90%

**B** 89-80%

**C** 79-70%

**D** 69-60%

**F** 59-0%

* + Late Work can be turned in but may not receive full credit.
  + Exams and Labs must be made up within three days upon returning to school.
  + Caught cheating will result in a zero.
  + Extra credit—biweekly grade sheets signed by parent/guardian and returned.

**Textbooks:**

* We will use the textbooks in class. Textbooks can be checked out for a night, weekend or semester for use at home if needed. See online access code above.

**Classroom Expectations and Procedures:**

**Expectations:**

1. Come to class every day with a positive, willing attitude and ready to be engaged in learning that day’s material.
2. Put forth your best effort! Grades are achieved; not received!
3. Be respectful and act like a decent person.

**Procedures:**

1. If you are not in the classroom when the bell rings, then you are tardy. As you enter class, you should look to get your notebook out and be in your assigned seat, which is permanent unless I move you.
2. Turning in homework. Homework should be turned into the box on the front teacher desk at the start of the hour or when asked for.
3. If you are absent from class it is your responsibility get your make-up work.
4. Lab Activities. During a lab activity you will be expected to follow directions as given for the safety of all. Disruptive individuals will be asked sit out of the lab and receive a zero.
5. This is a Lab Class, food is NOT allowed. Drinks are allowed in a closed container.
6. Chromebooks/Cell Phones/Electronic Devices should be turned off and put away while in the class unless otherwise instructed to use it in class. If caught using an electronic device you will be asked to put it away as your first warning. If it becomes a continued problem you will be reported to your Team Administrator for failing to comply with a reasonable request. Earbuds/headphones should be out of your ears during lecture, class discussions, activities and labs. Talking on your cell phone in class will result in an automatic office referral.
7. In case of Emergency please follow my instructions and procedural policies.

**Biology Course Overview**

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| --- | --- |
| **First Quarter**  Scientific Method  Characteristics of Life  Chemistry  Ecology | **Second Quarter**  Cells--- Structure and Function  Photosynthesis  Cellular Respiration  Cell Cycle/Mitosis   * DNA/Chromosomes   Cell Differentiation |
| **Third Quarter**  Meiosis  Genetics  -DNA, RNA  -Protein Synthesis  Evolution | **Fourth Quarter**  Evolution  Classification  Kingdom Survey  -Bacteria/Viruses  -Protists/Fungi  -Plants—Structure/Function  -Animals—Diversity and Dissections |

Year Schedule:

|  |  |  |
| --- | --- | --- |
| Standard | Chapter | Weeks |
| Diagram the flow of matter and energy through living systems. (SC.BIO.3.20) | 1,3 | 3 |
| Distinguish between abiotic and biotic factors and explain how these factors influence the distribution of life on Earth. (SC.BIO.3.19)  Explain how organisms respond to internal changes and external stimuli. (SC.BIO.3.21) | 4,5 | 2  End of 1st Quarter |
| Compare and contrast prokaryotic and eukaryotic cells. (SC.BIO.3.13) | 7 | 4 |
| Compare and contrast photosynthesis and cellular respiration. (SC.BIO.3.15) | 8,9 | 3 |
| Analyze cellular processes necessary for all living organisms (e.g. mitosis, meiosis, osmosis, diffusion). (SC.BIO.3.24)  Compare and contrast plant cells and animal cells. (SC.BIO.3.14) | 10,11 | 2  End of 2nd Quarter |
| Analyze the structure and function of DNA and RNA. (SC.BIO.3.16) | 11,12,13 | 3-4 |
| Analyze the role genes play in heredity and predict the outcomes of various gene combinations. (SC.BIO.3.17) | 14,15 | 4  End of 3rd Quarter |
| Explain and give examples of how the theory of evolution is a unifying theme in biology. (SC.BIO.3.18)  Explain how genetic variation within populations supports the theory of evolution. (SC.BIO.3.22) | 16,17 | 3 |
| Compare and contrast the life cycles of organisms on Earth. (SC.BIO.3.25) | 18 | 2 |
| Differentiate between various taxa and explain how scientists classify organisms based on their physical and genetic characteristics and evolutionary history. (SC.BIO.3.23) | 22-26 | 3  End of 4th Quarter |