

Course Name: 2007 Conceptual Biology
Teacher Name: Meghann Murray

Level: CCP

Points: 5

Course Description: This course is designed to help students gain an understanding of basic biochemistry, cell theory, genetics, energy transfer, evolution, ecology and anatomy and physiology. It is designed to acquaint the student with current biological concepts and theories in a readily understandable fashion. Laboratory, demonstrations and/or hands-on activities will be conducted once in every schedule cycle. Students will complete the Biology MCAS in the spring if they have not already met the competency determination for Science.

Texts/Instructional Materials:

Course website - msmurraybiology.weebly.com.

Required materials -

- 3-Ring Binder with sections (ex. warm-ups; notes; class-work & labs; homework; and tests & quizzes)
- Lined paper
- Pencil or Pen

Topics of Study:

Introduction to life

- Scientific Method
- Characteristics of life

Chemistry of life

- Elements found in living things
- Carbon Chemistry
- Enzymes
- Enzymatic reactions

Cells

- Cell structures
- Cell transport
- The Cell Cycle

Energy in organisms

- Photosynthesis
- Cellular Respiration

Genetics

- Mendelian Genetics
- Chromosomes

- Meiosis

DNA & RNA

- DNA Structure, Replication, Transcription
- Protein Synthesis

Body Systems

- Structures and locations of organs in each body system
- Functions of each body system
- How body systems work to maintain homeostasis

Evolution

- Natural Selection
- Evidence of Evolution

Ecology

- Energy in an ecosystem
- Cycles of nutrients
- Cycles of matter

Assignments:

There will be daily classwork assignments and homework will be assigned both from the textbook and in class multiple times a week.

Grading Policy: Grades will be based on a variety of assessment methods. Tests will be given at the end of each unit and at least two quizzes will be given each term. There will be a midterm exam at the end of the 2nd Quarter and a final exam at the end of the 4th Quarter; each of these will comprise 20% of the grade for those quarters.

Grades will be broken down as follows:

Assessment	1st/3rd Quarter	2nd/4th Quarter
Classwork/Labs/Projects	35%	28%
Homework	25%	20%
Tests & Quizzes	30%	24%
Class Participation	10%	8%
Midterm/Final Exam	0%	20%

Academic Accountability:

Students will complete the assigned work on time, or with knowledge of the following academic work policies:

Homework Policy:

In order to receive full credit, homework assignments must be turned in at the beginning of class on the day they are due. Homework is graded on a, check plus (√+), check * (√*), check (√), check minus (√-), late (L), very late (VL) and zero (0) scale. Homework grades will be based on correctness as well as completion. Please see homework grading sheet for a more detailed explanation. Homework will not be accepted once a test is given on the subject.

Make-Up Work:

Students must speak with the teacher on the first day back after an absence to discuss make-up work and its due date. Students who are absent on the day of a test/quiz/project should be prepared to take the test/turn in the project on the day of their return. Quizzes and tests must be made up on students' own time (i.e. before/after school), **not** during class. Generally, students will have 3 days to make up work, though this will be determined on a case-by-case basis.

Late Classwork Policy:

In order to receive full credit, work must be turned in by the **end of the period** (unless otherwise discussed). As with homework assignments, for each day classwork is late, the grade will decrease by one increment. Classwork will not be accepted once a test is given on the subject.

Cell Phone Policy: All cellular devices must be placed in the provided cell phone pockets for the entire class period. Pockets will be assigned to individual students. Students may retrieve their devices at the end of each period.

Discipline/3-Strike Policy:

It is expected that student behavior will reflect positively on the student. Students should **be respectful** of themselves, the teacher and fellow classmates, as well as the classroom.

1. **Warning** – students who are disrespectful, disruptive or using their phones in class will be given a warning.
2. **Detention** – if a student has received a warning but continues to be disruptive, they must serve an afterschool detention with me. Students that miss detention will be referred to the dean.
3. **Dean** – if a student has received a warning, as well as a detention but continues to be disruptive, they will be sent to their dean.

Students are expected to check ASPEN on a regular basis - grades will be updated frequently.

Please complete the portion below. DO NOT REMOVE THIS PORTION OF THE SYLLABUS – KEEP IT AT THE FRONT OF YOUR BINDER!

I, parent/guardian of _____, understand the content and expectations associated with the course described in this course contract/syllabus.

Name/Signature _____ Date _____

I, the student enrolled in the course described in this course contract/syllabus, understand what I can expect and what is expected of me, in this course.

Name/Signature _____ Date _____