

# Applied Science 2022-2023

## Class Information

**Teacher:** Cathy (CJ) Watson

**Phone:** 324-4691 ext. 313

**Room:** 313

**Email:** cathy.watson@lexschools.org

**Office Hours:** 7:30 AM - 3:45 PM (or by appointment)

## Class Overview:

This course is an introduction to science tailored for students that struggle with reading and/or math. This course will focus on two broad topics. The first is inquiry, the nature of science and technology. The second is life science, which includes the structure and function of living systems, heredity, flow of matter and energy in ecosystems and biodiversity. The purpose of this class is to introduce students to basic scientific principles as well as prepare them for the ACT.

## Class Requirements

iPad

Writing utensil

Folder to be left in classroom

## Course Objectives

The student will:

- Design and conduct investigations that lead to the use of logic and evidence in the formulation of scientific explanations and models.
- Apply the nature of scientific knowledge to their own investigation and in the evaluation of scientific explanations.
- Solve complex design problems.
- Investigate and describe the chemical basis of the growth, development, and maintenance of cells.
- Describe the molecular basis of reproduction and heredity.
- Students will describe, on a molecular level, the cycling of matter and flow of energy between organisms and their environment.
- Students will describe the theory of biological evolution.

**Grading** - Grades will be based on the Lexington High School grade scale.

Final grade breakdown per quarter:

Assessments 40%

Classwork 25%

Labs/Projects 35%

Semester #1 = Q1 =45%; Q2 =45%; Final =10%

Semester #2 = Q3 =45%; Q4 =45%; Final =10%

## **Expectations**

- It is always ok to ask for help.
- Try to do your very best work.
- It is always ok to be kind to others.
- Respect everyone, including yourself.
- There will be consequences for disruptive behavior.

## **Plagiarism/Cheating**

-Any student found plagiarizing work or cheating will get a zero for that assignment. Just don't do it.

## **Classroom Rules**

- Honesty is ALWAYS the best policy.
- Be nice.
- Be safe.

## **Absent policy**

- Students will be held accountable for all missed assignments, notes, etc. for any absence.
- Students will be considered tardy if they are not in their seats and ready to work when the bell rings. The first tardy is a warning, the second tardy will result in a 30-minute detention.
- Late work will be accepted until the end of the quarter we are currently in, however it will be at best worth  $\frac{1}{2}$  credit.
- If students miss class due to a school function.
- Students absent for personal reasons will follow the two-day rule: you will have two days to make up the work per each day of absence. All work must be made up within 5 days.

Detentions - Detentions are to be served within 24 hours.

By signing this paper, the student agrees to be held accountable for all of the expectations and rules in this syllabus for Mrs. Watson's class. Violations of rules will result in disciplinary action as outlined in the Student Handbook and the Student Code of Conduct.

Student (print): \_\_\_\_\_

Student (signature): \_\_\_\_\_

Parent (print): \_\_\_\_\_

Parent (signature): \_\_\_\_\_