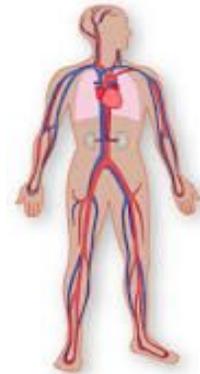
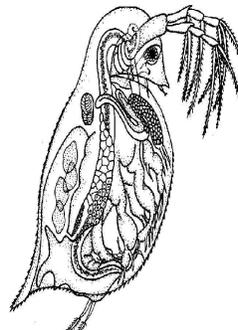




Life Science I Syllabus

Class Description

This is a semester long course that is designed to help you answer the essential question ***“How can I better understand myself and my community?”*** You will be introduced to the Science of Biology, the study of living things and how they are impacted by their environment. Have you ever wondered what you have in common with a tiny mouse, or a giant elephant? Or why your body reacts the way it does to heat or stress? In the first semester of class you will learn to be like a real scientist and design your own experiments. You will learn how to design an experiment using glow sticks, how to use a microscope to observe microscopic organisms and their traits, and about your own body systems and how they’re affected by the outside world.



In this course, you will be expected to work as scientists do in the real world. This means that you will observe scientific facts and situations, ask questions, form hypotheses, think of ways of testing those hypotheses, make new discoveries, discuss and reflect on those discoveries and apply what you learn to your own lives.

Major Assessments:

Over the course of the first semester, you will be completing four projects in which you will use your knowledge of the principles of life science to explore characteristics of living things. These projects will involve students demonstrating their knowledge of experimental design, how to use a microscope, make analogies to show your understanding of the parts of a cell, and design, run, and analyze an experiment to test how your own body reacts. This is a portfolio class, which will culminate in the students presenting three exemplary examples of their project work in January, along with a cover letter that illustrates their growth and skills over the semester. These projects must attain a grade of a 77% or above, or be revised to attain a grade of a 77% or above or the work may not be presented. In addition to presenting projects and a cover letter, students will also be required in presentations to verbally answer content questions related to the life science material and skills that they have learned. All of these assessments will be used to determine your final grade.

Project 1: The Glow Stick Experiment Project

Project 2: The Maze/Puzzle Experiment

Project 3: The Daphnia Project

Project 4: The Osmosis and Diffusion Project

Essential Question

The overall essential question for the first semester of the Life Science class is: *“How can I better understand myself and my community?”*

Grade Breakdown:

Most class information, including due dates and copies of assignments will be found on Google Classroom. Please make sure you are able to access our Classroom, and have access to your Facing History email address. Teachers and students at FHS use Pupil Path to access grading information. We are using a semester system, so you will only receive credits twice a year, in January and June. However you will receive progress reports from your teachers throughout the school year. This makes it even more important to be on top of your work! The grading categories have changed to be in line with our work towards layered curriculum.

Learning Activities (homework, classwork, participation): at least 60-80 graded, entered assignments a semester.

Formative Assessments (Quizzes and rough drafts of projects): at least 8-10 a semester

Summative Assessments (Major tests and final drafts of projects): at least 4-6 summative assessments a semester.

Supplies:

Students will need either a single subject notebook which will contain ONLY Science notes, or a multi-subject notebook with a section for Science, or a binder with loose-leaf and a separate section for Science. In addition you will need a folder or section of a binder to keep Science handouts. Students should have a pen or pencil every day, and come to class ready to learn and participate.

Progress Reports

Grades are available online at <https://pupilpath.skedula.com/> and will be updated regularly. If you don't already have one please create an account so that you keep track of your grades individually.

Contact Information

If you have any questions, please don't hesitate to contact us:

Email:

jomo@facinghistoryschool.org

luis@facinghistoryschool.org

Print Name

Sign Name