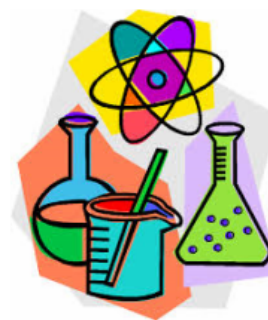


# 9<sup>th</sup> Grade Integrated Science Syllabus



**Teacher:**

**Email:**

## **Objectives of the Course:**

This course will be specifically focusing on the Physical and Biological Sciences. Throughout the duration of this course we will examine the structures and properties of matter, and apply that knowledge to our bodies/ environments biological functions.

## **Materials:**

Pearson Custom Library (9th Grade Integrated Science), Pen/ Pencil, Binder, Notebook and Chromebook. Please bring these to class every day!

## **Participation:**

I try and make my classes as engaging as possible. By participating and asking questions that are on topic, you are going to have more fun, and your understanding of the content will increase.

## **Graded Assignments**

### **Quizzes:**

I like to quiz early and often. You can expect one quiz per week. **(10-25 points)**

### **Pop Quizzes:**

I will give notice before most of my quizzes, but some quizzes may be unannounced. These pop quizzes will be given as I see fit. **(5-25 points)**

### **Tests:**

Tests will take place after the completion of every chapter. I will not test you on material that you have never seen. You will be given a study guide before every test that is worth **10 completion points**. However, other useful materials that will help prepare you for tests are as follows: homework, lab reports, and quizzes. **(80-115 points)**

### **Lab Reports:**

Throughout the course of the year, students will work in groups on several lab reports. Although you will be working as a group, each individual student will be required to turn in their own lab report unless told otherwise. The format for the labs will be given later. **(50-75 points)**

### **Homework:**

Homework and other assignments will always be given for a purpose. I do not believe in giving anyone busy work. When homework is given I expect you to finish it within the given timeline. The procedure for turning in homework will be given on the first day of class. **(10-50 points)**

**Late Work:**

**I DO NOT ACCEPT LATE WORK.** My expectations for everyone are very high, and I expect all of your work to be turned in on time. However, every nine weeks you will be given a no questions asked “get out of jail free” card. Allowing the Assignment to be 1 day late, which means it must be turned in the following day.

**NOTE: I CAN CHANGE THESE CONSEQUENCES AT ANYTIME, BASED ON CIRCUMSTANCES.**

**Classroom Procedures****Grading:**

Grading will be based on a points system.

**Cheating:**

If you are caught cheating or plagiarizing, you will automatically receive a zero on your assignment. If you are caught a second time you will receive a zero on the assignment, your parents will be called, and administration will be notified.

**Absences:**

If you are absent do not come and ask me if we did anything important that day. **OF COURSE WE DID SOMETHING IMPORTANT!** The work that you missed will be placed in your periods **Absent Homework Container** by the front door. I will remind you to retrieve your work when you come into class the day you return. The amount of time you have to complete your assignments will be determined by Mr. Lazauskas.

**Make up Quizzes:**

If you are present the day a quiz is announced, but missed the quiz date. You will make up your quiz upon your return. If you miss an extended amount of time, you will be given time to study and prepare.

**Snow Days:**

If I announce a quiz, and we have a snow day(s) the following day. Everyone will be taking the quiz the day we return.

\*We now have Flex days in place. Assignments will be posted in your class page.

**Cell Phones:**

I have a zero tolerance policy on cell phones. If I see, you with your cell phone out, I will take. If cellphones become a big issue, I will not only take your phone, but give them to the office as well. If you are having an emergency and need your cell phone out, speak to me before class.

**Laptops:**

Everyone has a laptop. You will only be using your laptops whenever I give you permission. Failure to listen can result in the loss of your laptop for the remainder of the period.

### **Extra Help:**

If you ever feel confused about anything we have covered in class, homework, or would just like me to explain something again, please come in for extra help! I am here at 7:15 in the morning and after school until around 3:00 (except during football season, as I am a coach). You may email me at any time. My door is always open!

***You are expected to adhere by all other policies and procedures as outlined in the student handbook/agenda.***

### **Course Outline (By Chapter)**

<b>Unit</b>	<b>Topic</b>	<b>Time Frame</b>	<b>Standards</b>
Chapter 1	Introduction to Inquiry	Weeks 1 - 3	3.1.8 A9
	A. Lab Safety		3.1.8 B6
	B. Inference, Observations, and Predictions		3.1.8 C4
	C. Facts, Laws, and Theories		3.2.8 A6
	D. Hypothesis Writing		3.2.8 B7
	E. Identifying Variables		3.3.8 A8
	F. Types of Graphs		3.3.8 D3
	G. Interpreting Data		
Chapter 2	Atoms and the Periodic Table	Weeks 4-6	3.1.10 A2, A9
	A. Subatomic Particles		3.2.10 A1, A5
	B. The Periodic Table		3.2.C A2, A5
	C. Bohr and Lewis Structures		
	D. Valence Electrons		
Chapter 3	Investigating Matter	Weeks 7 - 8	3.1.10 A2, A9
	A. Phases of Matter		3.2.10 A1, A2, A4&5
	B. Physical & Chemical Properties		3.2.C A2-4
	C. Physical & Chemical Changes		
Chapter 4	Chemical Bonds and Mixtures	Weeks 9 - 13	3.1.10 A2, A9
	A. Ionic Bonds		3.2.10 A1, A2, A4&5
	B. Covalent Bonds		3.2.C A2-4
	C. Properties of Matter		
	D. Mixtures & Solutions		
Chapter 5	Organic Chemistry	Weeks 14-16	3.1.10 A2, A9
	A. Organic Compounds		3.2.10 A1, A2, A4&5
	B. Hydrocarbons		3.2.C A2-4
	C. Saturated vs. Unsaturated		
	D. Functional Groups		
Chapter 6	Biochemistry	Weeks 17-20	3.1.10 A1, A7, B3
	A. Importance of Carbon		3.3.12 C
	B. Macromolecules		3.2.12 A4
	C. Polysaccharides		
	D. Polymers		
	E. DNA & RNA		

Chapter 7 The Basic Unit of Life – The Cell	Weeks 21-22	3.1.10 A1, A2, A9 Bio. A 4.1 Bio. B. 1.1
A. Characteristics of Life		
B. Introduction to Biology		
C. Types of Cells		
Chapter 8 Cell Transport	Weeks 23-25	3.1.10 A1, A2, A7 3.1.10 B2 Bio A.4.1 Bio B.1.1
A. Cell Membrane		
B. Active & Passive Transport		
C. Osmosis		
D. Endocytosis & Exocytosis		
Chapter 9 Mitosis and Meiosis	Weeks 26-28	3.1.10 A4 3.1.10 B2 3.3.10 C Bio.B.1.1 Bio .A.2.3
A. Cell Division		
B. Anatomy of a Chromosome		
C. Cell Cycle		
D. Value of Variation		
Chapter 10 Genetic Engineering	Weeks 29-33	3.1.10 B3 3.3.10 C Bio.B.2.4
A. What is Genetics?		
B. Genes & Dominance		
C. Punnett Squares		
D. Probability & Segregation		
E. Genes and the Environment		
F. DNA & RNA		
Chapter 11 Evolution	Weeks 34-36	3.1.10 C1, C3 3.3.12 D Bio.B.3.1 Bio.B.3.2 Bio.B.3.3
A. Types of Evidence		
B. Traits		
C. Comparing Anatomy		
D. Biochemical Evidence		
E. Geological Distribution		

**\*NOTE – This schedule will be subject to change. It is to be used as a guide for the course.**