

# SEEK PHYSICAL SCIENCE

2020-2021



## Week 1

A.M.- What is physical science? In the morning we will have a Pre-test and ice breakers to get to know each other. P.M.- we will begin our discussion on what physical science consist of, how science operates, Lab/Classroom Safety, expectations, Scientific Method

## Week 2

A.M. - Atoms, atomic theory and the periodic table, periodic table bingo. P.M.- ionic bonds vs. covalent bonds. We will do an experiment using salt and sugar to compare the two different bonds.

## Week 3

What makes water so special? We will dive into the science behind water looking at hydrogen bonds, covalent polar vs. non-polar bonds.

## Week 4

In the morning we will summarize our time with Chemistry and finish the day learning how to balance and write out chemical equations.

## Week 5

What is physics? This week we will begin kinematics.

## Week 6

Newton's Laws of Motion

## Week 7

A.M. Projectile motion, we will put our knowledge to the test with a little Angry Birds in real life. In the afternoon starts our lesson into satellite motion aka rocket science!

## Week 8

How do giant cruise ships float? Water boiling without heating? We will discuss buoyance and atmospheric pressure throughout the day!

## Week 9

We will learn the science behind sound. What our ears are truly hearing?

## Week 10

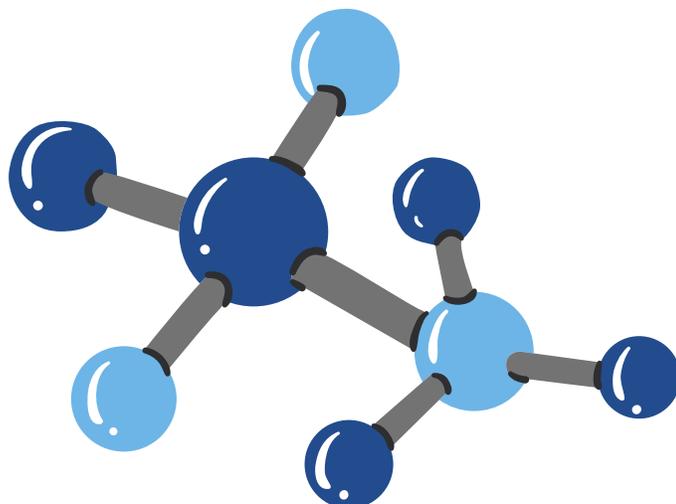
What are we looking at when we see? How does light actually work? We will use refraction/reflection to investigate properties of light.

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## Week 11

We will take the morning to learn about astronomy and talk about planets. In the afternoon, we will reflect on the Physics portion of our class. We will also cover the post-test and what to expect.



## Week 12

Post-test and time to reflect on the past 12 weeks. In the afternoon we will have SEEK graduation.



Be prepared for the weather. Many times throughout the 12 weeks we will be outside, dress appropriately for the cold/damp weather.



Grades will be given at the end of the semester. Each student will receive a grade for the class. Grades will be based off of Post-test (30%), class participation (20%), lab notebook (30%), and quizzes (20%). You will be able to check your child's grade throughout the semester using his/her personal account on [www.thinkwave.com](http://www.thinkwave.com). (I will send an email and give your child the account link Week 2)



Pictures and Weekly report. Staying up-to-date is important for both the student and parent. I will be sending weekly emails, detailing what we did the past week and what to look forward to. Email is the best way to reach me if questions or concerns arise.

Taylor Knox  
(501) 821-6884 (office)  
[tknox@uaex.edu](mailto:tknox@uaex.edu)