

S•E•E•K



Physical Science

2016-2017

Class Outline

Week 1

What is physical science?
In the morning we will have a Pre-test and ice breakers to get to know each other. In the afternoon 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!

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? History of motion: Aristotle to Galileo.

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

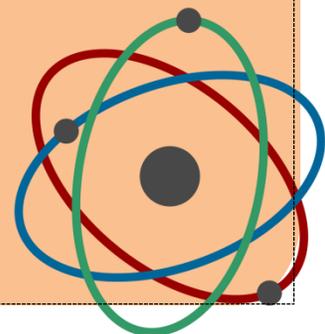
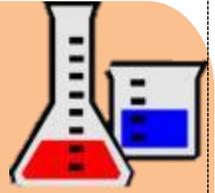
How do giant cruise ships float? Water boiling without heating? We will discuss buoyance and atmospheric pressure throughout the day!

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.



Week 11

We will take the morning to reflect on the Physics portion of our class. We will also cover the post-test and what to expect. In the afternoon we will see physics in action going across the ropes course and we will test the Doppler Effect as you go down the zip line!

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.engage.com. (We will send an email and also give your child the account link)



Pictures and Weekly report. We want to keep you updated throughout the 12 weeks, to do so we will open a private Facebook group specifically for Physical Science. There you and your student can join. We will post pictures, study materials, and assignments as the class progresses. We will also send out reminders and weekly emails at the end of each week.

Since this is the start of a new class we will have two instructors for Physical Science, Mike Simmons and Taylor Knox. Having two instructors gives us the ability to co-teach to our strengths. We look forward to the upcoming year and to starting this class together!

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