

# Physics

2021/2022



## Instructor Information

### Instructor

Kacey Morrissey

### Email

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## Instructor's Welcome

Welcome to Physics! My name is Kacey Morrissey, and I am very excited to get the opportunity to teach Environmental Science to our Freshman at Gateway Academy. I am originally from Colorado. I graduated from Northern Arizona University with a degree in Cross Categorical Special Education and Elementary Education. I have been working in the education field now for 7 years, all but a few months of that adventure here at Gateway, and I have loved every moment working with our unique population. As the High School Science teacher, I enjoy quoting the famous Frizzle by saying I believe each and every student should have the opportunity to “take chances, make mistakes, get messy”, and within that process become more comfortable on the journey to success. I look forward to working together with you and your students! Please feel free to reach out to me directly at the email listed above with any questions or comments. Thank you and have a great day!

## General Information

### Description

In Physics, students will be exploring the vast world of Science in its broadest and most functional form. The goal of this class is to foster and support our student's problem-solving skills and ability to look at their world with a continued hand on curiosity. They will work on understanding of how the world and scientific laws and theories work and relate to their everyday lives. This class has been designed to help students learn how to answer the question of “Why does it do that?” and “How do I fix it?”. Each student will have the opportunity to make mistakes and gain some real-world experience in Engineering learning the value of failure on the path to success. They will be given tools to assist with independent thinking and how to use them when coming across life's many challenges with a scientific mind. By the end of this year, they should have an understanding and grasp of how to approach unknown situations and apply their own knowledge to think creatively and build confidence in their own ability to find solutions.

### Expectations and Goals

Every day, students across the country ask the age-old question “Why are we learning about this?” This is the class that answers that questions by giving them practical information about how environmental work, how they are interrupted and what each student can do personally to make their own world and the world of others a better place, so that in the future they can better take care of themselves and their world. By the end of this class, I hope to have given the students a better idea of how they impact the world and how they can continue to do so positively.

Students are expected to attend class daily and bring a planner writing utensil, a notebook to take notes and a problem-solving attitude. In addition, students will be able to work independently, in small groups and in whole group settings to gain experiences in what it takes to make and be on an effective team.

## Course Materials

### Required Materials

Savvas Realize (formerly known as Pearson) is the adopted core curriculum at Gateway. Students have access to the Savvas lessons, activities, support resources, and any other documents assigned via their personal Savvas account. They have already received their personal login and password to do so. In addition, we will be using a wide array of support resources to teach and reinforce lessons from a variety of websites and other sources I have collected over the years.

### iCourse Topic Areas

Curriculum	Topic	Addtl. Info	Etc.
Savvas Realize	Motion		
Savvas Realize	Acceleration and Accelerated Motion		
Savvas Realize	Motion in Two Dimensions		
Savvas Realize	Newton's Laws of Motion		
Savvas Realize	Work and Energy		
Savvas Realize	Linear Momentum and Collisions		
Savvas Realize	Rotational Motion and Equilibrium		
Savvas Realize	Gravity and Circular Motion		
Savvas Realize	Temperature and Heat		
Savvas Realize	Thermodynamics		
Savvas Realize	Gases, Liquids and Solids		
Savvas Realize	Oscillations and Waves		
Savvas Realize	Sound		
Savvas Realize	The Properties of Light		
Savvas Realize	Reflection and Mirrors		
Savvas Realize	Refraction and Lenses		
Savvas Realize	Interference and Diffraction		
Savvas Realize	Electric Charges and Forces		
Savvas Realize	Electric Fields and Energy		
Savvas Realize	Electric Current and Electric Circuits		
Savvas Realize	Electromagnetic Induction		
Savvas Realize	Magnetism and Magnetic Fields		

<b>Curriculum</b>	<b>Topic</b>	<b>Addtl. Info</b>	<b>Etc.</b>
Savvas Realize	Quantum Physics		
Savvas Realize	Atomic Physics		
Savvas Realize	Nuclear Physics		
Savvas Realize	Relativity		