



## Instructor Information

### Instructor

Kacey Morrissey

### Email

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### Instructor's Welcome

Welcome to GASA! 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 GASA (Gateway NASA), students will be exploring the wonderful inventions by the brilliant minds of individuals all across the world that allowed us to transcend our Earthly Bonds. The goal of this class is to foster and support our student's unique interests in the field of Aeronautics, Astronomy and Engineering. We will begin by exploring the properties of flight and what keeps us grounded. Our next greatest challenge will be to simulate the process early Aeronauts struggled through to make marvelous flying wonders by having students free create, experiment and attempt to understand their successes and failures. From here we will go into more detail about the four major requirements for flight - Lift, Drag, Weight and Thrust. 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. All with the end goal of reaching for the stars as we conclude the year with several varieties of rocket launches to give them a taste for a potential future as Astronauts, Aeronauts and much more!

### 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	Introduction to Flight		
Savvas Realize	Adolescence of the Airplane		
Savvas Realize	Aircraft Development		
Savvas Realize	History of Commercial Avian Activity		
Savvas Realize	Basic Aeronautics		
Savvas Realize	Four Forces of Flight		
Savvas Realize	Aerodynamics - Bernoulli's Principle		
Savvas Realize	Advances in Aeronautics		
Savvas Realize	Aircraft Flight Control		
Savvas Realize	Aircraft Structure		
Savvas Realize	Aircraft Engines		
Savvas Realize	Aircraft Systems		
Savvas Realize	Helicopters		
Savvas Realize	General Aviation		
Savvas Realize	Types of Aircraft		
Savvas Realize	Navigational Systems		
Savvas Realize	Atmosphere		
Savvas Realize	Weather		
Savvas Realize	Spacecrafts & Rocket Systems		
Savvas Realize	Space Exploration		

