**Fantastic Tales: World Building and Story Telling**
Practice crafting characters, settings, and plots to develop a fantasy world of your creation, and learn how to build a world where the only limit is your imagination!
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**Don't Forget!: The Science of Memory**
Why are some memories easy to remember while others seem lost forever? Explore the amazing capabilities of our memory while investigating why we tend to forget certain events and facts.
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**You Can't Fit into My Genes: Introduction to Genetics**
Explore genetics and see how the smallest mistake can have long-lasting effects. Students will learn about DNA and RNA and how these essential cellular components are created.
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**Doctor for a Day**
Have you ever wondered what it's like to be a doctor? Now's your chance to find out! In this course learn and practice medicine in an "acute setting."
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**Mysterious Math**
Join us for a day of hands-on activities and mathematical puzzles as we explore these questions and more by unraveling the world of math and how it can be used in the real world.
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**Megastructures: Bridging Challenges in Engineering**
Design bridge structures using cultural examples, perform independent safety testing to optimize bridge designs, then work in teams to create the strongest, safest bridge.
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

**Social Psychology: Heroes vs. Villains**
Why do some comic book characters become heroes while other become villains? Why is society so obsessed these days with superheroes and what can this all tell us about our understanding of good and evil? This course will explore both of these through an understanding of social psychology.
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Monsters, Magic, and Myth
Study mythological traditions to find the origins of the hero mythos, then chart its presence in media today, including the Harry Potter series and a role playing game.
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

Chances Are...
Have you ever purchased a pack of baseball or trading cards hoping to get a rare one? Is there a best way to play rock paper scissors? Can you guess the number of jelly beans in a jar?
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

Stop-Motion Animation
Come discover how to express your creativity and tell a story through the creation of a stop-motion animation video. You will learn from an instructor who spent ten years as the director of technology for Walt Disney Television Animation and DisneyToon Studios!
Grades: 5, 6
Location: Duke University, NC
Term: October 7
Program: Academic Adventures

Virus Chasers: Introduction to Virology and Epidemiology
A virus is spreading in your community, and it's up to you to determine why.
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

Gravity, Buoyancy, Rainbows, and Sound: Explorations in Physics
In this class we'll perform hands-on laboratory experiments to learn the basics of physics: the science of motion, forces, and waves.
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

Art of Persuasion
Convincing people of your point of view isn't always easy. Fortunately, the ancient Greek philosophers knew a thing or two about persuasion, and we can learn their secrets!
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

Natural Disaster!
In this course we will dive deep into some of the worst natural disasters in human history, exploring
Politics and Debate
In this enriching and challenging course, we will be arguing the role of the US Constitution and if it should or should not be reconstituted to fit the needs of 21st Century Americans.

Codebreaking: Mathematics of Espionage
Do you have what it takes to be a spy? In this course, you will be introduced to cryptography, or the study of sending and receiving secret messages.

Through the Looking Glass
Spend an exciting and active day exploring fictional worlds from literature and film.

Crime Scene Investigations
Forensic science is popular in the media, but the actual application of forensic techniques requires a great deal of knowledge. Students will sift fact from fiction as they examine evidence of various forensic situations.

I Will See You in Court!
Movies and television are full of court scenes, but what really is the purpose of the courts and what are the different types of court cases?

Rollercoaster Mania
How do you make a roller coaster even more exciting? You have to understand the science behind how they work! In this interactive course, we'll cover Newton's three laws of motion and energy conservation as applied to roller coaster mechanics, and we'll address engineering aspects when we apply these principles.
Puzzles and Problem Solving
Have you ever tried to solve a Sudoku puzzle? Have you ever tried building your own? Come learn about the mathematics and logic behind Sudoku and other types of puzzles and problems so you can do both of those things.
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Money and Me: Agents of Change
Come spent a day becoming a financial secret agent with the mission of learning about math and money!
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Megastructures: Bridging Challenges in Engineering
Design bridge structures using cultural examples, perform independent safety testing to optimize bridge designs, then work in teams to create the strongest, safest bridge.
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Environmental Explorations: Climate Change
Climate change is in the news a lot, but what is it really? In this day of exploration, you will become a researcher and discover for yourself what is really happening.
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Puzzles and Problem Solving
Have you ever tried to solve a Sudoku puzzle? Have you ever tried building your own? Come learn about the mathematics and logic behind Sudoku and other types of puzzles and problems so you can do both of those things.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

Megastructures: Bridging Challenges in Engineering
Design bridge structures using cultural examples, perform independent safety testing to optimize bridge designs, then work in teams to create the strongest, safest bridge.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

Through the Looking Glass
Spend an exciting and active day exploring fictional worlds from literature and film.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

**Natural Disaster!**
In this course we will dive deep into some of the worst natural disasters in human history, exploring both the cause and the impact.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

**Rollercoaster Mania**
How do you make a roller coaster even more exciting? You have to understand the science behind how they work! In this interactive course, we'll cover Newton's three laws of motion and energy conservation as applied to roller coaster mechanics, and we'll address engineering aspects when we apply these principles.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

**How Computers "Think"**
Computational Thinking (CT) is the problem solving process that computers use to analyze information and create solutions to problems using a series or ordered steps (also known as algorithms). This course will examine how and why this works and how computer scientists and programmers put it to good use!
Grades: 5, 6
Location: Duke University, NC
Term: November 11
Program: Academic Adventures

**Adapt-an-Animal: Scales, Tails and Claws**
We will investigate modern and prehistoric adaptations, such as the various kinds of beaks that Hawaiian birds have developed. We'll test our findings in an experiment to discover what adaptations are best for collecting various kinds of food and chart the results.
Grades: 5, 6
Location: Queens University, NC
Term: October 21
Program: Academic Adventures

**Hacking the System: Computers and Security**
The best defense to stop hackers is to know how hackers and computers work. Focus on the concepts behind the practice and spend the day finding out how computer systems work on a high level and how computer security affects our everyday life.
Grades: 5, 6
Location: Queens University, NC
Term: October 21
Program: Academic Adventures

**DNA: Discovering the Double Helix**
How can a molecule small enough to fit inside each of the cells in our body have the information about the color of our hair (and so much more)? Spend the day learning all about DNA and why it is so important to who we are.
Grades: 5, 6
Location: Queens University, NC
Term: October 21
Program: Academic Adventures
Isn't it Ironic: Exploring a Writer's Tool
In this class, we will explore the three types of irony: verbal, dramatic, and situational. Then, we will use our knowledge to analyze irony in poetry, stories, tv shows, and plays.
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Cells, Chromosomes, and Disease
In this course, learn the basics of cell structure and discuss the role of cell processes in disease.
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

DNA: Discovering the Double Helix
How can a molecule small enough to fit inside each of the cells in our body have the information about the color of our hair (and so much more)? Spend the day learning all about DNA and why it is so important to who we are.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

Telling a Tale: How to Write a Story
Come read short stories from a variety of genres, analyze the craft of the short story, and, finally, compose a short story of your very own.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures

Heads Will Roll: Life in the Renaissance
Discover one of the most fascinating and tumultuous periods in history in this course focusing on the British Renaissance.
Grades: 5, 6
Location: Queens University, NC
Term: October 21
Program: Academic Adventures

Computers: Inside and Out
Many people use computers almost every day, but how many really understand how these machines work? Let's explore the inside of a computer!
Grades: 5, 6
Location: Queens University, NC
Term: November 18
Program: Academic Adventures

Detective for a Day: CSI
Come to campus to become detectives to solve a murder mystery! You will become immersed in the knowledge of crime scene analysis through a variety of hands-on activities.
Grades: 5, 6
Location: Rollins College, FL
Term: October 14
Program: Academic Adventures