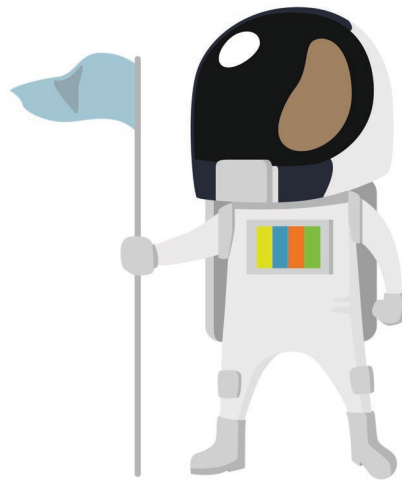




2nd Grade Adventure Field Trip: Alex the Astronaut



Come meet Alex the Astronaut in this field trip focused on Earth Science, Geometry, and Social Studies!

When they were little, Alex used to look up at the stars at night and dream of being an astronaut. Alex would imagine flying through space in a rocket ship, conducting scientific experiments and exploring new planets. And Alex's dream finally came true last year! After years of going to school and doing astronaut training, Alex became an official astronaut. To make things even better, Alex will be going on their first SUPER TOP SECRET mission to space tomorrow! Alex will be going to space to explore a faraway new planet. One group of astronauts is already on the planet, and Alex and some astronaut friends will be taking off tomorrow to meet them. But there are a few astronaut tasks that Alex needs help with first! Thankfully, Alex knows just the people who can help, so they are reaching out to some friends (that's you!) and asking them to come to Wonderscope to help out!

The activity stations for this field trip are as follows:

Station One: Help Alex save the astronaut camp!

At this activity station, students will help Alex save the astronaut camp from being washed away by a river! Students will test out a method to prevent erosion. This station aligns with the following MO and KS 2nd Grade Learning Standards:

MO Science 2.ESS2.A.1: *Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land. [Clarification Statement: Examples of solutions could include different designs of dikes and windbreaks to hold back wind and water, and different designs for using shrubs, grass, and trees to hold back the land.]*

KS Science 2-ESS2-1.: *Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.* [Clarification Statement: Examples of solutions could include different designs of dikes and windbreaks to hold back wind and water, and different designs for using shrubs, grass, and trees to hold back the land.]*

Station Two: Help Alex build the missing engine part!

At this activity station, students will build a missing engine part for Alex to put in the rocket ship! Students will deconstruct an old “machine” made of various 3D shapes and use the parts to build a new “engine part”. This station aligns with the following MO and KS 2nd Grade Learning Standards:

MO Math 2.GM.A.1.a: *Reason with shapes and their attributes. Recognize and draw shapes having specified attributes, such as a given number of angles or sides. Identify triangles, quadrilaterals, pentagons, hexagons, circles and cubes.*

KS Math 2.G.1.: *Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. Identify triangles, quadrilaterals, pentagons, hexagons, and cubes. (2.G.1)*

KS Science 2-PS1-3: *Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. [Clarification Statement: Examples of pieces could include blocks, building bricks, or other assorted small objects.]*

Station Three: Help Alex pass the astronaut test!

At this activity station, students will learn the answers to three questions about pioneers in the history and future of space exploration in order to help Alex pass their astronaut test! Then, students will put together a large rocket ship of their own so they can pretend to blast off into space. This station aligns with the following MO and KS 2nd Grade Learning Standards:

KS Social Studies, History Standards 1 and 4: They will recognize and evaluate how inventors and important inventions from the past influence their daily life today using examples from the United States and the world. How have past inventions changed or impacted your daily life? (Standard 1).

MO Social Studies 2.H.C.3: Describe the contributions of inventors or pioneers in their field who influenced progress in the nation (e.g., Eli Whitney, Henry Ford, Thomas Edison, Ben Franklin, Albert Einstein, the Wright brothers, Marie Curie, Helen Keller, Susan B. Anthony, Charles Drew, Alexander Graham Bell, Amelia Earhart, Rosa Parks, Sacajawea, etc.)