



Virtual Field Trip Guide Week 1

Tuesday, Oct. 12th

Time	Event	Audience
10am-11am	<p data-bbox="386 1024 889 1060">Discover the BioPark: Animal Adaptations</p> <p data-bbox="386 1098 1170 1213">Visit with the ABQ BioPark as we explore why penguins are such good swimmers, how snakes slither, and more, as we learn about animal adaptations together.</p>	Elementary school
11am-12pm	<p data-bbox="386 1251 813 1287">Robot Combat at New Mexico Tech</p> <p data-bbox="386 1325 1230 1608">This 6th-12th grade workshop will guide students through the process of designing, building, and programming a bot. We will show some of the various classes of bots, the types of signals used to communicate with our bots, and some ways to use math and coding to problem-solve getting different types of signals to talk to each other. We will also show some clips from past competitions, and showcase robots NM Tech students are currently building.</p>	6th grade and up
2pm-2:30pm	<p data-bbox="386 1646 623 1682">Fun with Foil Boats</p> <p data-bbox="386 1719 1138 1833">What makes a boat float? Young children will learn to use the engineering design process by making simple boats out of foil, floating them and using coins to try and sink them!</p>	K - 3rd

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Wednesday, Oct. 13th

Time	Event	Audience
9am-10am	Virgin Galactic Check back soon!	Check back soon!
10am-11am	What do you want to be when you grow up? Figuring out what to be when you grow up is a question we're all asked from a very young age. As you get to be a teenager or an incoming college student, the pressure to have that all figured out becomes very real. Did I grow up thinking I wanted to work for a utility? No, of course not. But I knew what I was good at and searched for a company with the same values I had. I applied my passions to my schooling and found a career doing what I love. I think you'd be surprised at what cool jobs exist right here in our very own community. Let me share a day in the life of a company spokesperson for the state's largest utility company.	Middle school and high school
12pm-1pm	The Future of Energy Storage The only way we will really be able to use solar, wind, and other renewable energy sources is by improving our energy storage. Since most of our renewable energy sources can't produce energy on demand, energy storage is needed during peak hours of production to supply power when there is low or no energy production at all. Currently, energy storage is extremely expensive for renewable energies and/or has possible safety issues. One of the energy storage methods being developed is the use of hydrogen fuel cells. Hydrogen fuel cells still need more research; however, their high energy conversion rates, zero-emission power and lower operational costs show a promising future. In the presentation we will go over these concepts on a basic level and have a demonstration with a hydrogen fuel cell car.	Middle school and high school

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1pm-2pm

[Junior Achievement's Virtual Career Speaker Series](#)

High school

Junior Achievement of NM is pleased to host a panel of speakers from CREW NM, the leading organization for women in commercial real estate in New Mexico ! These dynamic business professionals are excited to share their career stories and spend time with you!

Thursday, Oct. 14th

Time

Event

Audience

2pm-3pm

[Share with Wildlife: get involved with a wildlife project at your school!](#)

High school

The Share with Wildlife program at New Mexico Department of Game and Fish funds wildlife-focused projects all around New Mexico. Get ideas for different types of projects that the program supports. Learn about the Biota Information System of New Mexico (BISON-M) as a valuable source of information on New Mexico's wildlife. And get career tips for landing a job to conserve and protect wildlife and wildlands!

Friday, Oct. 15th

Time

Event

Audience

11am-12pm

[The Science of Light with SolAero Technologies](#)

5th - 8th grade

SolAero Technologies is a company that loves the sun and outer space! Which makes sense, because we make solar power for space exploration! We are excited to bring you a fun presentation about the science of light, focused on how the solar spectrum can be broken into different colors. Each band of colors lets us collect electricity to power vessels throughout the solar system. We will end our presentation with a tour of facilities and an overview of some of the space missions we have powered.

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Virtual Field Trip Guide Week 2

Monday, Oct. 18th

Time	Event	Audience
9am-10am	Spaceport America with Alice Carruth Join us for a virtual tour of the world's first purpose-built commercial spaceport, Spaceport America.	2nd - 8th grade

Tuesday, Oct. 19th

Time	Event	Audience
10am-11am	Lasers: Making Light Work! Did you know light can be used to heat - or even burn - objects? Compare the similarities and differences between the light from a regular household bulb with that produced by a laser. Then, we'll talk about laser power and demonstrate lasers with a million times the difference in power!	5th grade and up
1pm-1:30pm	Schrödinger's Cat Is it alive, or is it...not alive? Learn about the thought experiment that kept Einstein awake at night. A brief look into the Quantum realm through an easy to understand demonstration.	7th grade and up

Wednesday, Oct. 20th

Time	Event	Audience
10am-11am	Blowing Things Up...For Science! Tour the Energetic Materials Research and Testing Center (EMRTC) Field Lab and see some of the test sites used to perform experiments, including some of the real explosives that are used at EMRTC. Learn	7th grade and up

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how scientists collect data from these experiments and how the data is analyzed. And you'll be able to answer the question: How fast does a pineapple go when you blow it up?

Thursday, Oct. 21st

Time	Event	Audience
10am-11am	Bots and Physics This workshop will guide students through the process of designing, building, and programming a bot. Learn about the various classes of bots and compare them to wrecking balls and "blasters". We will also talk about the various forms of energy and how these bots, balls, and "blasters" use energy in various forms	6th grade and up
1:30pm-2:30pm	New Mexico Tech Materials Engineering Group Have you heard of a 3D printed house? Learn about additive Manufacturing, materials engineering, and how ceramic coating has changed our world.	Middle school and high school

Friday, Oct. 22nd

Time	Event	Audience
10am-11am	APS Check back soon!	Check back soon!
11am-12pm	How to Bee in a Changing World Learn what it's like to be a beekeeper! We'll discuss honey bee facts, the differences between honeybees and native/wild bees, and what we can do to support them both in a changing (and warming) world.	4th grade and up
12pm-12:30pm	Dark Skies with Ranger Greg Baker	5th grade and up

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Discover the incredible impact of a dark night sky on the world around us. Dark skies are a resource that not only support a wide variety of habitats and life processes, but also influence the cultural stories from the ancient Greeks in the Mediterranean to the Ancestral Puebloans of New Mexico. However, just like many natural resources, it can be hard to find natural dark skies as artificial lights continue to expand with growing populations. Join a Park Ranger, and learn what you can do to keep the future of the night sky dark!

1pm- 2pm

NMSEA SunChaser

Check back soon!

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