MOFFAT CREEK PS
FAMILY SCIENCE NIGHT

January 31 6:30-8pm, siblings welcome!

Hello Everyone, The parent council is thrilled to present a science night on January 31 from 6:30-8pm! Tinker Truck will be hosting multiple hands-on activities to stir your curiosity and extend your skills in making cool things at home. Below are some quick descriptions to get you excited. See you there!

Foam Air Rockets

Blast off with our most popular program ever: Rockets! Using scissors, duct tape, recycled cardboard and foam pipe wrap we build and launch rockets with a bike pump and a quick-release pressure chamber. We will be blasting across the gym and experiment with different air pressures and rocket designs.

We will be exploring the balance between weight and thrust, aerodynamics, angles and air pressure. Every decision has an impact but all of the rockets will fly and thrill the participants.

Caution: The launchers make a mild fog-horn noise that can startle some younger siblings.

LED Doodle Jewellery

Participants learn about basic electricity while making this extremely cool necklace or brooch. Students install a 3V coin-cell battery and a colour-changing LED light into a laser-cut base made from clear acrylic plastic. Once assembled they draw on the plastic with special markers and their drawing will light up. Either a brooch pin or a necklace cord can be installed to turn it into a piece of incredible wearable art.

The battery will last for 36-48 hours and can be easily replaced.

3D Modelling & Technology Lab

Let's learn how to use one of the technologies of the future. In this project participants will use the school's chromebooks to learn about 3D Computer Aided Modelling (CAM) on a website called TinkerCAD.com. The preliminary challenge is to build a stacked snowman out of three spheres. With this simple experiment children use basic mathematical shapes to learn how to manipulate a 3D world on a 2D computer screen.

Tinker Truck will also provide a video of a 3D printer in action and do a few in-person 3D scanning demonstrations. This program is a huge hit and usually has long-lasting inspiration as the kids can continue at home with no cost.

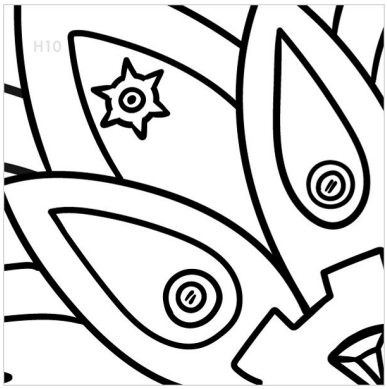
Kid's can print their designs at most public libraries.

LED Helicopters

These helicopters launch with a rubber band and light up for a fantastic evening outdoor display. Participants use a custom piece of laser-cut plastic, mylar wings, an LED, and a battery to create a helicopter they can launch into the air and that will spin slowly back to the ground. We will test them in the gym, but hope participants will take them outside to fully enjoy on their way home. Learn about electricity and aerodynamics all in one fun project!

Caution: Safety glasses are required (and provided during the event) for launching these helicopters.

Mindful Mural Collaboration



Use any colour or pattern you want because the lines won't make any sense until they are combined into a larger picture. As participants randomly colour the small 10x10cm tiles slowly a complete picture will emerge -- one created collaboratively by the whole school. This highly colourful work will stay on display and serve as a reminder of what teamwork can accomplish even when you don't know what your destination is.
Teamwork is the foundation of science.