

ENTRY FORM PACKET

The 14th Annual
Mountain Park Science Expo

To Be Held On

Thursday, October 26th

6:00 pm—7:30 pm

Mustang Science Lab (Cafeteria)

All K-5 Scientists Invited!

Applications Due by Email

No Later Than Monday, October 16, 2023.

For More Information:

Contact Leslie and Julie: scienceexpompe@gmail.com

SCIENCE EXPO ENTRY FORM

Participant Name _____

Grade _____ **Teacher** _____

Partner(s) (if applicable) _____

Partner's Grade and Teacher (if applicable) _____

Email Address _____

Category (check one of the following):

_____ **Research Scientist-** Participants are challenged to do a science investigation or research project at home and then display the project at the Science Expo. (Teams and Groups Allowed)

_____ **Resource Scientist-** Parents, grandparents, aunts, uncles, etc. will share a little bit of science with our Mustangs. Open to adults, this category is intended to draw on the vast diversity of careers and interests at Mountain Park. Some examples may include: a ham radio demonstration or even a display of a specific industry technology (probably a field in which someone works or has worked).

Project Title:

Project Description:

_____ **I will need access to electricity**

_____ **I will need other special requirement (please detail)** _____

Please return this form via email to Leslie and Julie at scienceexpompe@gmail.com by Monday, Oct. 16, 2023 at 6:00pm. If you are not a MPE student, please include an email address.

Below is a list of general topics & sample questions that you could consider for a science project. It will start you thinking about all the many areas of science you can investigate. Also consider doing a project on a science topic that you will cover in class this year.

Aerodynamics	Earth	Insects	Oceanography	Rocks
Airplanes	Ecology	Invertebrates	Parasites	Shells
Amphibians	Electricity	Light	Photosynthesis	Solar system
Astronomy	Energy	Liquids	Planets	Sound
Birds	Engines	Machines	Plants	Tides
Bones	Fish	Magnetism	Pollution	Trees
Camouflage	Flowers	Mammals	Recycling	Vertebrates
Color	Food chains	Moon Phases	Reptiles	Vocal cords
Conservation	Geology	Motion	Respiratory system	Water
Constellations	Gravity	Muscular system	Robotics	Weather
Crystals	Heart	Nervous system	Rockets	Worms
Digestive system	Heat	Nutrition		Yeast

Behavioral Science

- What effect does music have on memory?
- How can a pet be taught to run a maze faster?
- What effect does food have on a pet during training?

Biochemistry

- What foods have starches?
- What is the salinity of tears?
- Microbiology
- What things will biodegrade?
- Why does food spoil?

Chemistry

- What is the effect of acid rain on plants?
- What conditions affect the rate of chemical reactions?

Energy and Electricity

- What is the best conductor and why?
- What material is the best insulator?
- How is steam used to work?

Earth Science

- How do crystals grow?
- How can we predict weather?

- How much pollution is in our air?
- What makes a rainbow?

Botany

- What things affect plant growth?
- Do some plants drink more water than other plants?
- Why do leaves turn color in the Fall?

Consumer Science

- Which product works the best?

Health Science

- How do video games affect heart rate?
- How does smoke affect living things?

Physics

- How does color affect temperature?
- How does sound travel?
- What factors determine how far a baseball travels when hit?

What is the Mountain Park Elementary Science Expo?

The Science Expo is a voluntary, non-competitive display of your science work that you complete at home with a parent or a partner. This is our fourteenth year and we want MPE students to be excited about science. This Science Expo assures that every child has a wonderful opportunity to display their scientific talents and learn more about science.

When is the Science Expo?

The Science Expo is Thursday, October 26th from 6:00pm - 7:30pm.

What do I need to do?

Once you fill out and return the Entry Form, you will receive a folder which will include additional resources and ideas to help you create your project. After that, you need to have fun creating a science project at home with a parent or a partner that you will then display at the Science Expo.

What type of science project is acceptable?

The focus of the Science Expo is doing the work of a scientist or displaying scientific information to the audience. An experiment, a research project, or a scientific collection is awesome! We want you and your audience to learn more about the areas of science that interest you.

Where can I get help with my science project?

MPE has a large assortment of science books. Our local libraries & bookstores are full of different books with workable ideas. The Magic School Bus is a fantastic series of books that usually includes experiments in the back.

Below are a few great websites to utilize as resources:

<http://www.tryscience.org/>

<http://science.howstuffworks.com/>

<http://www.doscience.com/>

<http://www.sciencebob.com/>

<https://www.nasa.gov/stem>

<http://www.nationalgeographic.com>

<http://www.nyelabs.com>

<https://www.stevespanglerscience.com/>

If you have any questions, please contact the Science Expo Chairs, Leslie and Julie,
scienceexpompe@gmail.com