

Science Design Experiments

Choose 1:

Design Experiment One:

Can you create your own Grand Canyon?

Get some dirt or sand and put it in a big box. Can you use water, wind, or ice to **create valleys and canyons**? Which methods gave you the best results?

Materials:

box fan ice water
materials of your choice
(make sure you ask!)

Design Experiment Two:

Can you build your own band?

Using what you know about **how vibrations make sounds**, can you design and **build different instruments people could play** and create your own band? How can you make each instrument have its own **unique sound**? Can you make instruments that can make **more than one pitch**? Find a song and perform it with your new instruments, or write your own new song to perform!

Materials:

Whatever materials are ok for you to use at home
(make sure you ask!)

Design Experiment Three:

How can you resist gravity?

Can you keep an apple, a pear, or a banana from smashing to the ground when you throw it from a balcony or **from a high height**? Can you build something that will help it float to the ground rather than smashing? Once you have perfected your prototype, can you control where it will land? Keep notes of your results!

Materials:

Whatever materials are ok for you to use at home (make sure you ask!)