

## Mammoth Cave National Park STEAM in the PARK

### Cave Exploration

- Identify the three basic types of rocks: igneous, sedimentary, and metamorphic
- Recognize that Kentucky was once covered by a sea that formed the rocks we see today
- Describe the process of constant change that rocks undergo from their creation millions of years ago to the weathering processes of today

### Water

- Become aware of the importance of the Green River to Mammoth Cave
- Identify the various steps in the water cycle: precipitation, surface runoff, percolation, evaporation and condensation
- Understand the importance of water planning and identify water management strategies used to ensure adequate water supply
- Understand the concepts of river basins and watersheds and be able to identify their river basin and local watershed
- Identify different plants and animals that are found in and around freshwater habitats and recognize patterns in what these organisms need to survive.

### Night Skies

- Explore the effects of light pollution and experiment with possible solutions
- Discuss the best location to build an observatory or carry out astronomical observations

### Dragonflies

- Understand that all animals have a life cycle that includes being born, developing into an adult, reproducing, and eventually dying
- Understand that the details of life cycles vary from one organism to another
- Observe the changes that occur during the growth and development of the dragonfly
- Sequence the stages of life

