

MPL STEAM Kits!

Animals- This kit contains flashcards with all kinds of interesting facts about different types of animals. The included activity involves using Lego bricks to build animal models, allowing you to see a 3-dimensional representation of the creatures you learn about with the flashcards! The included informational packet contains links to the Lego instructions and a list of books available at the Mooresville Public Library that can teach you more about birds, dogs, tigers, and all kinds of other animals!

Cats- The Cats kit is a bit of a misnomer; the kit actually focuses on logic games and problem solving. In this kit you will find an excellent board game called Cat Crimes. This game is great because you can play it with the whole family. The objective is to determine which one of the feline fiends committed the grievous crime in question. Also included is a list of mystery novels available at the library that will allow you to further flex your investigative muscles.

Coding- This kit contains two books, Coding Games in Scratch by Jon Woodcock and Coding for Kids in Scratch by Raj Sidhu. Scratch is a visual block-based coding language that allows you to create your own video games, interactive stories, and animations. Scratch also helps to build creativity and problem solving, while also being a great introduction to the world of coding and programming! Scratch is available for free online and is developed by researchers at the Massachusetts Institute of Technology. Over 60 different languages are available including Spanish, Italian, and Chinese, making Scratch a highly accessible platform. Included in the informational packet for this kit is a list of other books available at the Mooresville Public Library about coding and programming for when you are ready to move beyond Scratch!

Dinosaurs- The Mooresville Public Library's Dinosaur kit contains everything you need to start your own Jurassic Park! You can use the included Play-Doh to bring the fossil figures back to life. The included plastic eyes allow you to give a bit of personality to your dino friends! Also included are flashcards with interesting facts (and pronunciation guides for the harder to say names) about all kinds of dinosaurs! The information packet includes a list of books that can teach you even

more about dinosaurs. Just because these mighty creatures are now extinct doesn't mean that your knowledge about them has to be!

Lego Movies- The Lego movies kit contains everything you need to create your own film. You can start your career as a filmmaker and soon be on track to winning an academy award with this kit. Using the included Legos and webcam, as well as the included book, you can make your own movie using a technique called stop motion animation. Stop motion animation is one of the oldest film making techniques used by Hollywood and has been used in hundreds of classic movies. Further information on movies and their creation can be found in the books on the list included in the informational packet.

Magnets- Magnets and their ability to attract to each other are the focus of this kit. The magnetic tiles found inside can be used to create buildings, bridges, vehicles, or anything else you can imagine, giving you insights into the engineering and design process. Further information about the properties of magnets and magnetism can be found in the books listed in the information packet. Before you start building, think of some problems you can solve with your magnetic creations. Who knows, it might just become the next great invention that revolutionizes the world.

Planets- The seventh kit available at the Mooresville Public Library focuses on space and the solar system. Inside you will find models of all the planets (plus Pluto, the dwarf planet) in our solar system. You can use these models to learn about the positions of the planets in the solar system as well as the different sizes of each planet. You can also quiz your friends and family with the included trivia questions. If you find yourself stumped by any of the trivia, you can find all the answers in the included fact sheet or through the books listed in the informational packet!