

SCIENCE

PREP

Science through Observation

Preps will continue to explore a broad range of science fundamentals with a focus on how we start all scientific processes with an observation. Each week, students will be observing problems with different senses in order to accurately hypothesize and experiment. Going beyond what students can simply see, they will be engaging with experiments through their smell, touch, taste, hearing, and even sense of balance. Through these explorations, they will be learning how these senses function, their relationship to our brain, and how other animals make use of these biological tools to survive.

1/2

Animal Superpowers

Extraordinary abilities can be found all around us in the animal kingdom. Students will be exploring the adaptations of a wide variety of animals and relating them to different areas of science such as physics and chemistry. How does water fall off a duck's back? What causes an animal to develop camouflage? And why are Wombat butts so indestructible? The students will answer all these questions and more as they investigate through weekly experiments and strategic implementation of the scientific method.

3/4

Science of the Middle Ages

For this term students will be travelling back in time to the age of knights, castles, kings and queens. From this perspective we are able to explore the material sciences behind the construction of an impenetrable castle, but also explore a variety of creative ways to destroy them. As the knights ride in students will learn about the variety of ways they armed and defended themselves.

5/6

Motors and Generators

Electricity makes the modern world go around, but what makes the electricity? And how does it move things around in the first place? Throughout this unit students will be peering inside our everyday items to understand electricity's origins and uses. With the simple resources of magnets and copper wiring, students will be constructing rudimentary motors and generators, discovering the mechanics to the devices around them and the