**Predator trapping/monitoring** | Suitable for students Y5+ | *May have dead animals*

Keeping predator numbers in control is an important part of looking after a place like Mistletoe Bay. Learn about the various types of introduced animals including predators, along with their habits and life cycles. The more you know about an animal the more tuned you can make any control needed. There are a wide range of traps available, each has design features which make it suitable for a particular type of animal or make it easy to use and maintain. We will have a look at a few of these trap designs and discuss the merits and failings. Choosing the right trap requires you to know what you are targeting. Tracking tunnels allow us to tune the trapping to the need. Students will help set up and position a trail camera and a series of tracking tunnels, which we will revisit in the morning to assess the results.

*This programme is about: The difference between native and introduced animals. The effects of an animal out of balance with the environment. Predator/prey relationships. Ethics and Humane killing.*

**Life below the waves** | Suitable for Y4-10 | *Outdoor programme*

More people have been to the moon than the bottom of the deepest ocean. The problem is water pressure! This programme is largely based down at the jetty where we test for water pressure, and then try out some sub surface sampling techniques. A simple hydrophone will be used to listen in to what noises are going on underwater. We will set up a BRUV (Baited Remote Underwater Video) to see what fish are attracted to bait out in the bay. Students will be able to try out a water sampler to allow a comparison between the water temperature, pH and salinity near the surface and at depth. But what does the bottom of the bay look like? We can use an action camera attached to an underwater trolley to drive across the bottom of the bay. The footage can be reviewed to see what is down there. We can also deploy a sub-surface light trap in the evening to see what is attracted overnight.

*This programme is about: Remote monitoring, undersea habitats, sub-tidal life, food webs/chains. Biotic versus abiotic influences. Pressure, temperature, salinity, pH, light, sound, currents and tides. Sampling methods. Accessing places that humans cannot survive.*