

STEM @ the Zoo

Science, tech, engineer and maths in the real world

Year 5-6

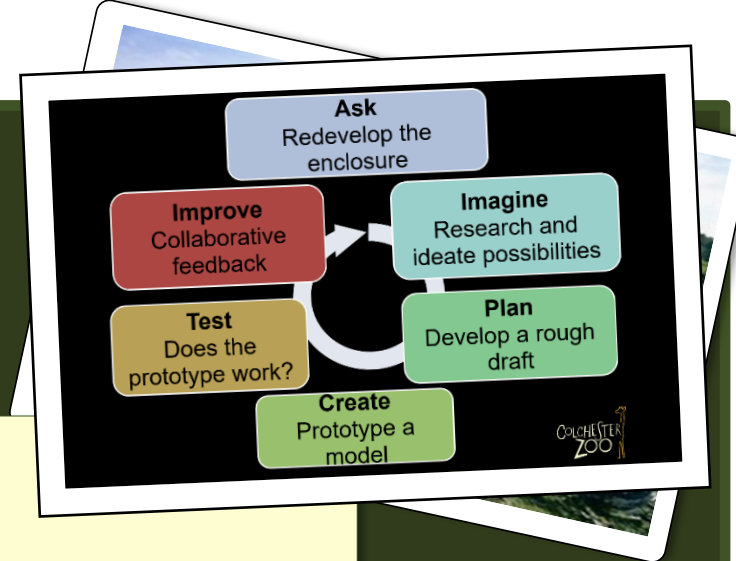
Learning Outcomes:

At the end of the session:

- ✓ **All students** will be aware of some real-world applications of STEM
- ✓ **Most students** will understand the importance of evaluation and considering user needs during the STEM Design Process
- ✓ **Some students** will gain awareness of potential career pathways

Session Outline:

The session begins with an introduction to the job roles of zoo keeping. This includes requirements, as well as a variety of routes into the job role. The importance of STEM to the job role is also discussed including nutrition, monitoring animal health, and maintaining animal environments. Next, we will investigate how zoos use the STEM design process when developing new enclosures through an interactive activity where students assess an early 'prototype' of an enclosure and consider how to improve it. The session finishes with how zoos are using STEM to help save endangered species. This includes genetics analysis as well as supporting Conservation Technology to be used in the wild.



Topic Links

Careers

Science – working scientifically; evolution & inheritance

Design & Tech: design; evaluate

Citizenship