



# SURVIVAL 101: OUT RUN, OUT CHANGE, OUT LAST High School

## DESCRIPTION

How did animals of today develop with similar biological traits to those of their ancestors? Which species outlived another? Students will examine fossil records through geologic time to determine how natural selection and adaptation played major roles in the evolution of various species. Students will also investigate how physical characteristics evolved from exposure to various environmental conditions, such as habitat, food sources and climate. They will also see how changes in those ecosystems affected the traits passed down to future species' generations.

### 30 MINUTES – GALLERY TIME

- Learn about survival and extinction of various species throughout time. Examine fossil records for development of physical characteristics and compare biological traits through geologic time. Discuss effects of food webs, various climates and biomes along with the shifting lands on a species evolution.

### 30 MINUTES - LAB

- Define evolution and discuss fossil evidence.
- Explain and discuss animal adaptation and provide examples across various species.
- Create a Creature activity.

### 30 MINUTES

- Fossil Dig and Careers in Paleontology information

### 30 MINUTES

- Store, Foucault Pendulum & Apatosaurus

### TAKE HOME ITEMS

- Three genuine Fossils from the Fossil Dig, Mold of real fossil