

# Academic Decathlon - Science Resource Guide 2021-2022

Oceanography - the scientific study of the oceans that integrates biology, chemistry, engineering, geology, and physics

marine biology - The study of the living organisms that inhabit the seas and their interactions with each other and their environment.

Aristotle - A Greek Philosopher, taught Alexander the Great, started a famous school, studied with Plato and early marine biologist

James Cook - A navigator and ship captain who explored and claimed land in Australia for England in 1770 and the first scientific oceanographer to make skillful measurements

Ferdinand Magellan - Portuguese navigator who led the Spanish expedition of 1519-1522 that was the first to sail around the world.

Charles Darwin - English natural scientist who formulated a theory of evolution by natural selection (1809-1882)

induction - a form of reasoning that involves forming generalizations based on evidence from specific cases; theories are the product of induction from a large number of specific observations or experiments

deduction - a form of reasoning from one or more general statements to reach a logical conclusion about a specific instance

scientific method - set of procedures used by scientists to learn about the natural world through a repeated process of observations and experiments and via the application of deductive and inductive reasoning

hypotheses - statements of proposed explanations based on the observed evidence, which serve as a starting point for further investigation

testable - describes a hypothesis that is able to be tested and thereby falsified or corroborated

experiment - a scientific procedure that is used to test a hypothesis

controlled variable - Factor in an experiment that a scientist purposely keeps the same

scientific theory - A well-tested explanation for a wide range of observations or experimental results.

Pacific Ocean - the largest ocean on Earth, bordered by

# Academic Decathlon Science Resource Guide

**Pennsylvania State University**

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