

Honors Bio Standards

Standards for Honors Biology addressed in Authentic Assessments (1-yr course)

Content standards:

1. Formulate hypotheses using prior research and knowledge.
2. Conduct controlled experiments to test hypotheses.
3. Recognize controls and variables in an experiment.
4. Analyze and draw conclusions from collected data.
5. Demonstrate correct lab procedure.
6. Graph a set of data.
7. Relate ecological concepts to a current ecological issue facing the world.
8. Describe how enzymes function in chemical reactions.
9. Describe the structures and organization of cells and tissues that underlie basic functions including respiration, cellular transport, and reproduction.
10. Differentiate between the major life processes of cellular respiration and photosynthesis.
11. Make and explain an analogy between a biological structure and an everyday object or process.
12. Apply concepts of genetics to genetic disorders.
13. Describe contraceptive techniques or reproductive technologies and how they relate to human reproduction.
14. Explain how the human immune system functions.

Process standards:

1. Use library resources for research.
2. Use critical thinking skills.
3. Communicate in a positive manner in a group setting.
4. Present information effectively to an audience.