AP Biology

1. Describe the unifying themes of biology

2. Diagram the hierarchy of structural levels in biology

3. Explain how the properties of life emerge from complex organization

4. Describe seven emergent properties associated with life

5. Distinguish between holism and reductionism

6. Explain how techological breakthroughs contributed to the formulation of the cell theory

7. Distinuguish between prokaryotic and eukaryotic cells

8. Explain the phrase: "form fits function."

9. List the kingdoms of life and and distinguish among them

10. Describe how Darwin's ideas contributed to the conceptual framework of biology

11. Describe scientific methods and processes

12. Describe the characteristics of scientific hypotheses

13. Distinguish between inductive and deductive reasoning

14. Explain the interdependence of science and technology