

## Honors Biology I – EOC study guide

**Embedded Inquiry – What tools, skills, knowledge and dispositions are needed to conduct scientific inquiry?**

SPI 1 – Select a description or scenario that reevaluates and/or extends a scientific finding.

SPI 2 – Analyze the components of a properly designed scientific investigation.

SPI 3 – Determine appropriate tools to gather precise and accurate data.



Name each and tell what each could be used for.

SPI 4 – Evaluate the accuracy and precision of data.

Accuracy describes how close a measured value is to the \_\_\_\_\_ value of the quantity measured

Precision refers to the degree of \_\_\_\_\_ with which a measurement is made and stated. (precision describes the limitations of the measuring instrument)

SPI 5 – Defend a conclusion based on scientific evidence.

SPI 6 – Determine why a conclusion is free of bias.

A synonym of bias is prejudice...you want experimental results to be free of prejudiced opinion.

SPI 7 – Compare conclusions that offer different, but acceptable explanations for the same set of experimental data.

**Embedded Technology and Engineering – How do science concepts, engineering skills, and applications of technology improve the quality of life?**

SPI 1 – Distinguish among tools and procedures best suited to conduct a specified scientific inquiry.

What are the 5 parts of experimental design (scientific method)? Do you know what each means? (p. 8)

- 1.
- 2.
- 3.
- 4.
- 5.

SPI 2 – Evaluate a protocol to determine the degree to which an engineering design process was successfully applied.

Design analysis – The design analysis process is a methodical approach that is used by engineers, architects, and designers to solve problems. Most designers use some process for problem solving. Most of the processes are based on a logical system of experimentation, data gathering, and record keeping. The design process is often based on consumer demand for the product. A typical design analysis process has these elements:

1. **problem identification** – identify all that is known about the problem (historical and background info., economic requirements, manufacturing or construction processes available, and market info.; list known limitations and specify the desirable features)
2. **preliminary ideas** – record all ideas in notes, written descriptions, and sketches – these may be originals or modifications
3. **refinement** – the designer takes several preliminary ideas and reduces them to two or three that are the best; these ideas are then refined with more detail. Preliminary drawings often have the major dimensions, physical properties, shape, and weight characteristics.
4. **analysis** – the analysis of the problem is a very important part of the design process. After the designer chooses the best ideas, he is ready to consider cost, strength, function, etc. Testing and data collection help determine the best results (design). Physical properties like material, shape, size, color or texture are also considered.
5. **decision** – selecting the best design may be a joint decision between a team of designers, engineers, and manufacturing or construction leaders. Positives and negatives are considered.
6. **implementation** – formal drawings are made, specifications are written and the product is manufactured...in some cases a prototype is made for final testing before being released for mass production.

SPI 3 – Evaluate the overall benefit to cost ratio of a new technology.

A BCR is the ratio of the benefits of a project or proposal, expressed in monetary terms, relative to its costs, also expressed in monetary terms.

In its simplest form, benefit cost ratio is a figure that is used to define the value of a project versus the money that will be spent in doing the project in the overall assessment of a cost-benefit analysis.

# Eoc Biology Honors Study Guide

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## **Eoc Biology Honors Study Guide:**

## **Eoc Biology Honors Study Guide** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Eoc Biology Honors Study Guide**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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