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CW High School

Biology I B

1. **Photosynthesis & Cellular Respiration** (22.50%)

Learning Targets

1.1 I can develop and use a model to interpret experimental data regarding how photosynthesis transforms light energy into stored chemical energy

Learning Target	Descriptor	Definition
4	Proficient	I can develop and use a model to interpret experimental data regarding how photosynthesis transforms light energy into stored chemical energy
3	Developing	I can develop an experiment that interrupts an input in the cycle of photosynthesis.
2	Basic	I can diagram where and how photosynthesis is occurring in the chloroplast.
1	Minimal	I can identify organisms that do and do not perform photosynthesis and define terminology associated with it.
0	No Evidence	No evidence shown.

1.2 I can develop and use a model to interpret experimental data regarding how cellular respiration transforms chemical energy into usable chemical energy.

Learning Target	Descriptor	Definition
4	Proficient	I can develop and use a model to interpret experimental data regarding how cellular respiration transforms chemical energy into usable chemical energy.
3	Developing	I can design a lab that demonstrates cellular respiration activity by collecting and interpreting data.
2	Basic	I can diagram where cellular respiration is occurring in the mitochondria.
1	Minimal	I can identify organisms that do and do not perform cellular respiration and define terminology associated with it.
0	No Evidence	No evidence shown.

1.3 I can demonstrate understanding of the cyclical nature of photosynthesis and cellular respiration.

Learning Target	Descriptor	Definition
4	Proficient	I can demonstrate understanding of the cyclical nature of photosynthesis and cellular respiration.
3	Developing	I can diagram the cyclical nature of photosynthesis and cellular respiration.
2	Basic	I can explain the cyclical nature of photosynthesis and cellular respiration.
1	Minimal	I can identify the cyclical nature of photosynthesis and cellular respiration.
0	No Evidence	No evidence shown.

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2. Cell Growth & Division (22.50%)

Learning Targets

2.1 I can model mitosis and discuss its importance in cell growth and development.

Learning Target	Descriptor	Definition
4	Proficient	I can model mitosis and discuss its importance in cell growth and development.
3	Developing	I can discover how cancer cells are different than other cells (cell cycle regulation).
2	Basic	I can outline the main events of the cell cycle and the four phases of mitosis.
1	Minimal	I can describe the structure and function of chromosomes.
0	No Evidence	No evidence shown.

2.2 I can differentiate between possible benefits and issues associated with stem cell research.

Learning Target	Descriptor	Definition
4	Proficient	I can differentiate between possible benefits and issues associated with stem cell research.
3	Developing	I can determine the importance of stem cells when considering drug therapies.
2	Basic	I can research current studies associated with iPS, hES, and stem cells.
1	Minimal	I can define terms associated with stem cells.
0	No Evidence	No evidence shown.

2.3 I can compare and contrast mitosis and meiosis.

Learning Target	Descriptor	Definition
4	Proficient	I can compare and contrast mitosis and meiosis.
3	Developing	I can differentiate between mitosis and meiosis.
2	Basic	I can sequence the steps associated with meiosis.
1	Minimal	I can define terminology associated with meiosis
0	No Evidence	No evidence shown.

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3. **Genetics & Human Heredity** (22.50%)

Learning Targets

3.1 I can create Punnett squares that illustrate how genotypes and phenotypes are related.

Learning Target	Descriptor	Definition
4	Proficient	I can create Punnett squares that illustrate how genotypes and phenotypes are related.
3	Developing	I can differentiate between genotypes and phenotypes.
2	Basic	I can explain different patterns of inheritance.
1	Minimal	I can define terminology associated with genetics.
0	No Evidence	No evidence shown.

3.2 I can decipher the information communicated through a karyotype.

Learning Target	Descriptor	Definition
4	Proficient	I can decipher the information communicated through a karyotype.
3	Developing	I can determine the information communicated through a karyotype.
2	Basic	I can sequence homologous pairs.
1	Minimal	I can define vocabulary related to karyotypes.
0	No Evidence	No evidence shown.

3.3 I can use a pedigree to demonstrate the patterns of inheritance human traits follow.

Learning Target	Descriptor	Definition
4	Proficient	I can use a pedigree to demonstrate the patterns of inheritance human traits follow.
3	Developing	I can calculate probabilities of the transmission of a genetic trait.
2	Basic	I can understand the transmission of sex-linked traits.
1	Minimal	I can identify symbols associated with pedigrees.
0	No Evidence	No evidence shown.

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4. **DNA** (22.50%)

Learning Targets

4.1 I can model and explain the process of DNA replication.

Learning Target	Descriptor	Definition
4	Proficient	I can model and explain the process of DNA replication.
3	Developing	I can decipher a diagram of DNA replication.
2	Basic	I can identify proteins required for DNA replication.
1	Minimal	I can define vocabulary associated with DNA replication.
0	No Evidence	No evidence shown.

4.2 I can illustrate how proteins are synthesized.

Learning Target	Descriptor	Definition
4	Proficient	I can illustrate how proteins are synthesized.
3	Developing	I can compare the structure of RNA and DNA.
2	Basic	I can recognize different types of RNA and RNA synthesis.
1	Minimal	I can define terminology associated with protein synthesis.
0	No Evidence	No evidence shown.

4.3 I can predict the effects of mutations on DNA.

Learning Target	Descriptor	Definition
4	Proficient	I can predict the effects of mutations on DNA.
3	Developing	I can compare different types of mutations.
2	Basic	I can describe different types of mutations.
1	Minimal	I can define vocabulary associated with mutations.
0	No Evidence	No evidence shown.

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5. **English Learning Target (10.00%)**

Learning Targets

5.1 I can read to identify and explain the central idea of a topic-specific text while also determining supporting details used and summarizing information accurately.

Learning Target	Descriptor	Definition
4	Proficient	I can read to identify and explain the central idea of a topic-specific text while also determining supporting details used and summarizing information accurately.
3	Developing	I can read to identify and explain the central idea of a topic-specific text while also determining supporting details used.
2	Basic	I can read to identify the central idea of a topic-specific text while also determining supporting details used.
1	Minimal	I can read to identify the central idea of a topic-specific text
0	No Evidence	No evidence shown.

5.2 I can produce clear and coherent writing, with sound conventions and mechanics, in which the development, organization, and style are appropriate to the task.

Learning Target	Descriptor	Definition
4	Proficient	I can produce clear and coherent writing, with sound conventions and mechanics, in which the development, organization, and style are appropriate to the task.
3	Developing	I can produce coherent writing, with minimal errors in conventions and mechanics, in which the development and organization are appropriate to the task.
2	Basic	I can produce coherent writing, with few errors in conventions and mechanics, with evident organization and appropriate to the task.
1	Minimal	I can produce coherent writing appropriate to the task.
0	No Evidence	No evidence shown.

Submitted on 1/31/2022 by