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Notes:

Cellular Respiration - An Overview

What are the sources of cellular respiration?

What are the products of cellular respiration?

What are the stages of cellular respiration? What are the locations of each stage?

What are the reactants and products of each stage?

What are the energy requirements for each stage?

What are the energy yields for each stage?

What are the overall equations for cellular respiration?

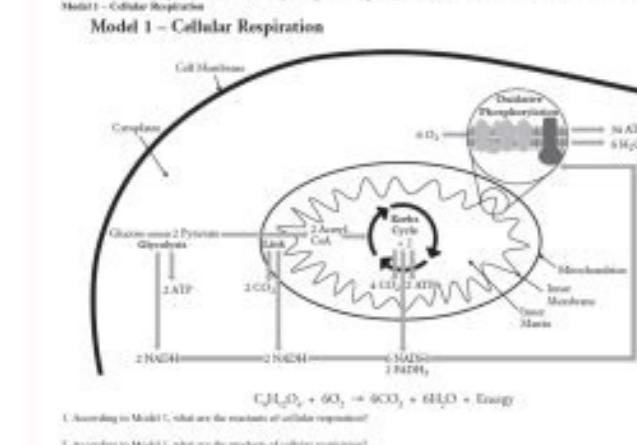
What are the overall energy yields for cellular respiration?

What are the overall reactants and products for cellular respiration?

What are the overall requirements for cellular respiration?

What are the overall energy requirements for cellular respiration?

What are the overall reactants and products for cellular respiration?



$C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$

1. According to Model 1, what are the sources of cellular respiration?

2. According to Model 1, what are the products of cellular respiration?

3. Cellular respiration occurs in three phases: glycolysis, the Krebs cycle, and oxidative phosphorylation.

4. The first phase of cellular respiration is called:

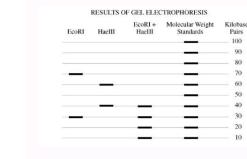
5. Which phase of cellular respiration uses the most energy?

6. Which of the first phases of cellular respiration produces carbon dioxide?

7. Which of the first phases of cellular respiration produces energy?

8. The goal of cellular respiration is to provide the cell with energy in the form of ATP.

9. How many ATP molecules are produced for every glucose molecule undergoing cellular respiration?



Section 2 Load Cases

7.3 Maximum VSF

- i) Vertical shear force, (+) upward shear force on a positive face (see Section 2, Figure 2)
ii) Vertical shear force, (-) downward shear force on a positive face

The shear force location is selected based on the still-water maximum shear force location for the loading condition considered.

FIGURE 2
Positive Vertical Shear Force

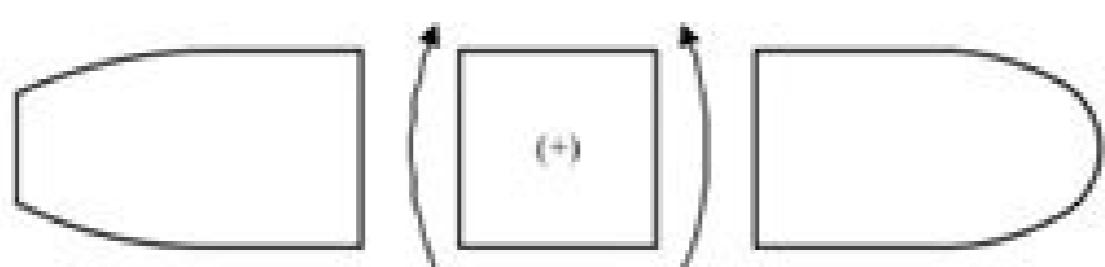


7.5 Maximum HBM

- i) Horizontal bending moment amidships, (+) tension on the starboard side (see Section 2, Figure 3)
ii) Horizontal bending moment amidships, (-) tension on the port side

This DLP refers to the maximum wave-induced horizontal bending moment amidships

FIGURE 3
Positive Horizontal Bending Moment



7.7 Maximum HSF

- i) Horizontal shear force, (+) toward port forward
ii) Horizontal shear force, (-) toward starboard aft

This DLP refers to the maximum wave-induced horizontal shear force at two locations ($1/4$ and $3/4$ of the vessel length).

7.9 Maximum V_{acc}

- i) Vertical acceleration at Forward Perpendicular (FP) or turret center, (+) pitching up
ii) Vertical acceleration at Forward Perpendicular (FP) or turret center, (-) pitching down

This DLP refers to the maximum vertical acceleration at bow. Unless otherwise specified, the reference point may be taken at intersection of FP or turret center, centerline and waterline.

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