

Metabolic Processes

Figure 14-8 depicts the three stages of cellular respiration. Label the figure by placing the following terms on the appropriate answer blanks. Color the diagram as suits your fancy, and then answer the questions below the figure.

- | | | |
|-----------------|--------------------------|---------------|
| ATP | Glucose | Mitochondrion |
| Carbon dioxide | Glycolysis | Pyruvic acid |
| Chemical energy | Electron transport chain | Water |
| Cytosol | Krebs cycle | |

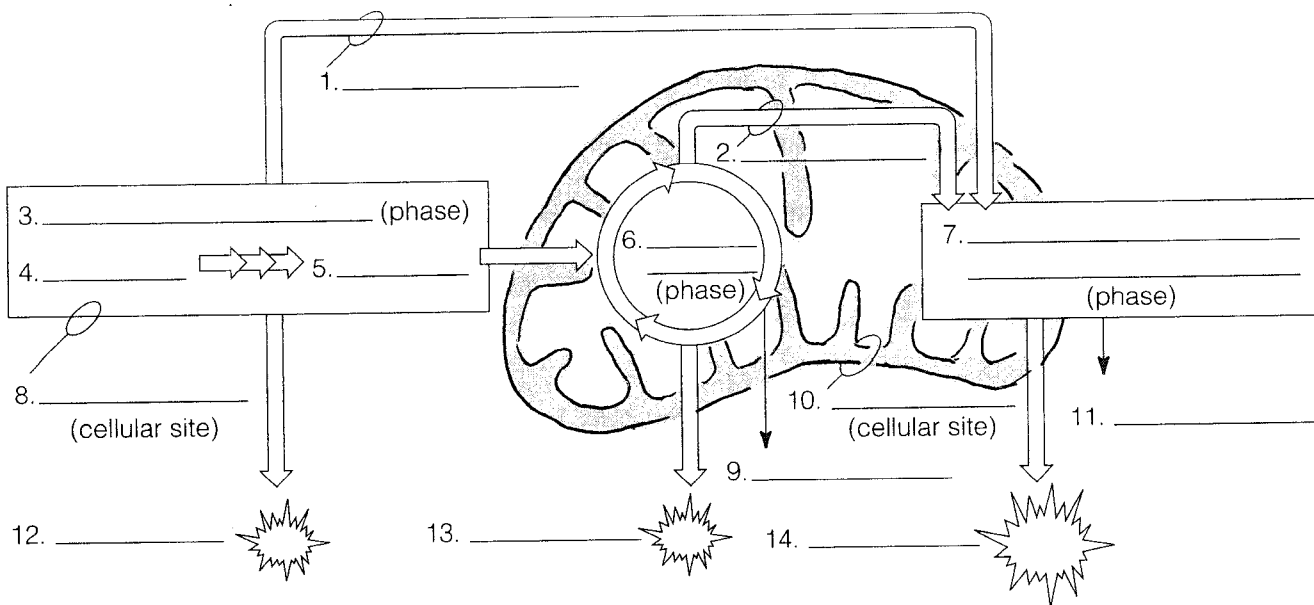


Figure 14-8

1. Which of the oxidative phases does not require oxygen?

2. Which phases do require oxygen?

3. In what form is chemical energy transferred from the first two phases to the third phase?

4. Which of the phases produces the largest amount of ATP?

5. Which phase combines energetic H atoms with molecular oxygen?
