

ACTIVITY SHEET

1. List the components of an ATP molecule.

- i).....
- ii).....
- iii).....

2. Explain the formation of an ATP molecule.

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3. Define each of the following terms.

a) Entropy

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b) Metabolic reactions

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c) Substrates

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d) Diffusion

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e) Phagocytosis

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f) Active transport

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g) Thylakoid membranes

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h) Cristae

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i) Centriole

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4. Distinguish between the terms in each of the following sets.

a) Active site : Allosteric site

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b) Activator : Repressor

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c) Glycolysis : Krebs cycle reactions

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d) Endergonic reaction : Exergonic reaction

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e) Aerobic respiration : Anaerobic respiration

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f) **Light-dependent** stage of photosynthesis **light-independent** stage of photosynthesis

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5. Name the following:

a) reactants of photosynthesis

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b) products of photosynthesis

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c) reactants of **aerobic respiration**

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d) products of **aerobic respiration**

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e) products of **anaerobic respiration** in animals, plants, fungi, and bacteria

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6. Explain how cells regulate enzyme activity

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7. Discuss the importance of photosynthesis and respiration for living organisms.

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