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Photosynthesis Review Worksheet ANSWERS

Part 1: Match the terms below with the correct description.

Chlorophyll	Chloro	Photosynthesis
Chloroplast	Light-dependent	Photosynthetic
Electromagnetic spectrum	Reaction	Reaction
Electromagnetic spectrum	Krebs Cycle	Thylakoid
	Photosynthesis	

1. **Thylakoid** - packet of solar energy

2. **Light-dependent reaction** - energy capturing portion of photosynthesis that takes place in thylakoid membranes, of chloroplast and convert protons and water into energy, it produces ATP and NADPH

3. **Thylakoid** - green pigment that absorbs solar energy and is important in photosynthesis

4. **Stroma** - large, central compartment in a chloroplast that is fluid filled and contains enzymes used in photosynthesis

5. **Chloroplast** - membrane bound organelle with chlorophyll containing membranes thylakoids, where photosynthesis takes place

6. **Photosynthesis** - process by which plants and other photosynthetic organisms use light energy to produce high-energy molecules and glucose

7. **ATP** - Package of electrons along a series of carrier molecules, keeps higher to a lower energy level, the energy released is used for the synthesis of ATP

8. **Photosynthesis** - Process usually occurring within chloroplasts whereby chlorophyll traps solar energy and carbon dioxide is reduced to a carbohydrate

9. **Thylakoid** - Series of membrane in which light is captured to provide the energy to fix carbon dioxide into glucose in the chloroplast

10. **Light cycle** - Synthetic portion of photosynthesis that takes place in the stroma of chloroplast and does not directly require solar energy, it uses the products of the light dependent reactions to reduce carbon dioxide to a carbohydrate

Part 2: Answer the following questions.

1. Explain the difference between autotrophic and heterotrophic. Give 2 examples of each.
Autotrophic - make their own food, plants, cyanobacteria
Heterotrophic - get food from other people, etc.

2. Below show a molecule of ATP. Label ADP, Adenosine, Phosphate groups. An arrowhead that would be broken off is shown.

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