

| <b>B</b>        | <b>I</b>                                      | <b>N</b>      | <b>G</b>     | <b>O</b>                  |
|-----------------|-----------------------------------------------|---------------|--------------|---------------------------|
| stroma          | ATP                                           | NADPH         | photon       | electron acceptor         |
| Calvin cycle    | purple and blue                               | green         | ATP synthase | photosystem II            |
| thylakoid       | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> | <b>FREE</b>   | chlorophyll  | chloroplast               |
| photosystem I   | dark reactions                                | heterotroph   | Oxygen       | electron transport chain  |
| CO <sub>2</sub> | photosynthesis                                | Hydrogen ions | water        | Light dependent reactions |

|                                 |             |                   |                                |                                               |
|---------------------------------|-------------|-------------------|--------------------------------|-----------------------------------------------|
| <b>B</b>                        | <b>I</b>    | <b>N</b>          | <b>G</b>                       | <b>O</b>                                      |
| thylakoid                       | water       | ATP<br>synthase   | dark<br>reactions              | Calvin<br>cycle                               |
| photon                          | chloroplast | NADPH             | electron<br>transport<br>chain | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> |
| chlorophyll                     | ATP         | <b>FREE</b>       | Oxygen                         | heterotroph                                   |
| Light<br>dependent<br>reactions | stroma      | Hydrogen<br>ions  | photosystem<br>I               | CO <sub>2</sub>                               |
| electron<br>acceptor            | autotroph   | photosystem<br>II | green                          | purple<br>and blue                            |

|                    |                      |                 |                                 |                                               |
|--------------------|----------------------|-----------------|---------------------------------|-----------------------------------------------|
| <b>B</b>           | <b>I</b>             | <b>N</b>        | <b>G</b>                        | <b>O</b>                                      |
| photosystem<br>I   | Oxygen               | thylakoid       | Light<br>dependent<br>reactions | photon                                        |
| photosynthesis     | photosystem<br>II    | water           | dark<br>reactions               | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> |
| heterotroph        | ATP<br>synthase      | <b>FREE</b>     | chlorophyll                     | NADPH                                         |
| autotroph          | electron<br>acceptor | CO <sub>2</sub> | ATP                             | stroma                                        |
| purple<br>and blue | green                | chloroplast     | electron<br>transport<br>chain  | Hydrogen<br>ions                              |