

|                  |                                               |                      |                        |                     |
|------------------|-----------------------------------------------|----------------------|------------------------|---------------------|
| <b>B</b>         | <b>I</b>                                      | <b>N</b>             | <b>G</b>               | <b>O</b>            |
| stroma           | 3-PGA                                         | NADPH                | photon                 | carbon<br>reduction |
| Carotenoid       | red and<br>blue                               | electrons<br>jumping | ATP                    | photosystem<br>II   |
| thylakoid        | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> | <b>FREE</b>          | chlorophyll            | P700                |
| Calvin<br>cycle  | Rubisco                                       | photoreduction       | carbon<br>fixation     | green               |
| photosystem<br>I | P680                                          | Oxygen               | carbon<br>regeneration | CO <sub>2</sub>     |

| B              | I                    | N                                             | G                      | O               |
|----------------|----------------------|-----------------------------------------------|------------------------|-----------------|
| chlorophyll    | carbon<br>reduction  | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> | photosystem<br>II      | CO <sub>2</sub> |
| photoreduction | P700                 | Rubisco                                       | red and<br>blue        | ATP             |
| thylakoid      | photon               | <b>FREE</b>                                   | carbon<br>regeneration | Carotenoid      |
| NADPH          | electrons<br>jumping | photosystem<br>I                              | Calvin<br>cycle        | green           |
| 3-PGA          | stroma               | water                                         | Light<br>reaction      | Oxygen          |

|                   |                        |             |                      |                                               |
|-------------------|------------------------|-------------|----------------------|-----------------------------------------------|
| <b>B</b>          | <b>I</b>               | <b>N</b>    | <b>G</b>             | <b>O</b>                                      |
| chlorophyll       | Carotenoid             | green       | Light<br>reaction    | ATP                                           |
| 3-PGA             | water                  | NADPH       | thylakoid            | Calvin<br>cycle                               |
| red and<br>blue   | photosystem<br>I       | <b>FREE</b> | carbon<br>fixation   | photon                                        |
| CO <sub>2</sub>   | carbon<br>regeneration | Rubisco     | P700                 | C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> |
| photosystem<br>II | carbon<br>reduction    | Oxygen      | electrons<br>jumping | stroma                                        |