

1. *Chlorophyll* a & b. *Chlorophyll* a is the primary photosynthetic pigment in most plants. It is a green pigment that absorbs light energy and converts it into chemical energy. *Chlorophyll* b is an accessory pigment that absorbs light energy and transfers it to *Chlorophyll* a.

2. *Carotenoids*. These are yellow, orange, and red pigments that absorb light energy and transfer it to *Chlorophyll* a. They also protect the photosynthetic apparatus from damage by excess light energy.

3. *Xanthophylls*. These are yellow pigments that absorb light energy and transfer it to *Chlorophyll* a. They also protect the photosynthetic apparatus from damage by excess light energy.

4. *Phycobilins*. These are blue and red pigments that absorb light energy and transfer it to *Chlorophyll* a. They are found in cyanobacteria and red algae.

5. *Anthocyanins*. These are red, purple, and blue pigments that absorb light energy and transfer it to *Chlorophyll* a. They are found in many plants and are responsible for their autumn colors.

(Chloroplast)

The chloroplast is a green organelle found in plant cells and some algae. It is the site of photosynthesis, the process by which plants convert light energy into chemical energy.

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