Carbon fixation

- CO2 is added by the enzyme
- RuBisCO-> 5- carbon compound RuBP -> 2 molecules of 3-carbon PGA

Hatch and slack

- C4 cycle
- ß-carboxylation pathway and co-operative photosynthesis

Mesophyll cell and Bundle sheath cell

- C4 cycle
- 2 types of photosynthetic cells
- Mesophyll->randomly distributed along cell walls
- Bundle sheath-> chloroplasts are located close to the vascular tissues or mesophyll cells depending on the plant species

PHOTORESPIRATION

- lowers the efficiency of photosynthesis
- RuBP reacts with oxygen -> carbon dioxide
- during the Calvin cycle
- because of catalytic activity of RuBP oxygenase
- important difference between C3 and C4 plants