2.20 Leaf adaptations in leaf for photosynthesis

Explain how the structure of the leaf is adapted for photosynthesis

* Conversation of light energy to chemical energy
* **Blade/Lamina:** Large surface area – to collect light
* Thin – fast diffusion of carbon dioxide and oxygen
* **Palisade Cells:** Contain the chloroplasts
* Chloroplasts contains light collecting pigments called chlorophyll
* **Pores (stomata)** in lower epidermis – allows carbon dioxide to enter the leaf
* **Mesophyll:** lots of spaces (spongy). Space allows diffusion of carbon dioxide, and allows movement of water – both substrate molecules in photosynthesis
* **Vascular Bundle:** A vein that comes in to the leaf, which allows the delivery of water – water being supplied to the leaf by the xylem