PHOTOSYNTHESIS

1) Describe light dependent reaction in photosynthesis.

- _____energy is absorbed by _____ pigment in Photosystem ___
- _____ is transferred to the _____ (chlorophyll a)
- _____ in reaction center is _____
- These electrons are received by _____
- And are transferred along ETC to synthesize _____ (by chemiosmosis)
- And finally receives by _____, which had lost its electron earlier by photoactivation process
- Excited electrons from _____ is accepted by primary electron acceptor and passed along ETC until it reaches Ferredoxin / Fd
- Finally the electrons are received by _____
- $NADP^+$ also receive 2 _____ (from photolysis) to form _____
- This reaction is catalysed by _____
- _____ charged reaction center in P_{680} / PSII is a strong oxidizing agent
- Which causes water molecule to _____ into _____, _____ and _____
- This reaction is catalysed by manganese containing enzyme / Z protein
- Electrons from photolysis of water neutralize _____ reaction center

LIVEWORKSHEETS