## Photosynthesis: The Light Dependent Reaction WORKSHEET A

Part of actual reaction	Role (you to fill in!)	Represented by
Photolysis		Ball pit with blue, red and yellow balls
Hydrolytic enzyme		Peg
Ray of light (680/700nm)		Lanterns
Photosystems		Plant pot
Hydrogen ion		Red ball
Electrons		Yellow ball
Membrane of Thylakoid		Blue play mats
Electron transport chain (plastoquinone and cytochrome)		Play tunnel
NADP		Egg box
ATP Synthase		Garden wind ornament
Ferrodoxin		Campervan double egg cup
ATP		Plasticine blobs and cocktail sticks



Mr Matthew King

## Photosynthesis: The Light Dependent Reaction WORKSHEET B

These questions will be answered during the live Q&A session on Wednesday 13<sup>th</sup> May at 2pm. A transcript of answers will be provided after the event.

11130	inscript of answers will be provided after the event.		
1.	What is the difference between PSI and PSII?		
2.	What is the biological significance of Cytochrome? (hint: Phylogenetics)		
3.	Does photosynthesis have a net gain of ATP?		
4.	What other types of phosphorylation are there?		
5.	How do some weed killers act on the electron transport chain in the LDR?		
6.	Why is PSII first?		
7.	What other evaluative points for me model are there?		
Otl	her questions to raise at the Live Q&A		

Related activities:

An introduction to photosynthesis

The process of photosynthesis

Photosynthesis using algae wrapped in jelly balls



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