## 2.9 Photosynthesis

## **Light Absorption**

400 nm

Light Absol ptio	1		
Define photosynth	nesis		
Identify the range	of wavelengths absorbed via pho	otosynthesis	
State the main ph	otosynthetic pigment in plants ar	nd identify where	they are found
Outline the differe	ence in absorption of red, green a	nd hlue liaht hv n	lants
outime the algere	nee in absorption of rea, green ar	ta brae ngne by p	Turios
Draw the action s	pectrum and absorption spectrun	n and provide a c	omparison between the two
	Action Spectrum		Absorption Spectrum
<b>†</b>		<b>†</b>	
sis		peq.	
/nthes		absor	
hotosy		f light	
Rate of Photosynthesis		Amount of light absorbed	
Rat		Am.	

Action Spectrum:		 	
Absorption Spectru	m:	 	

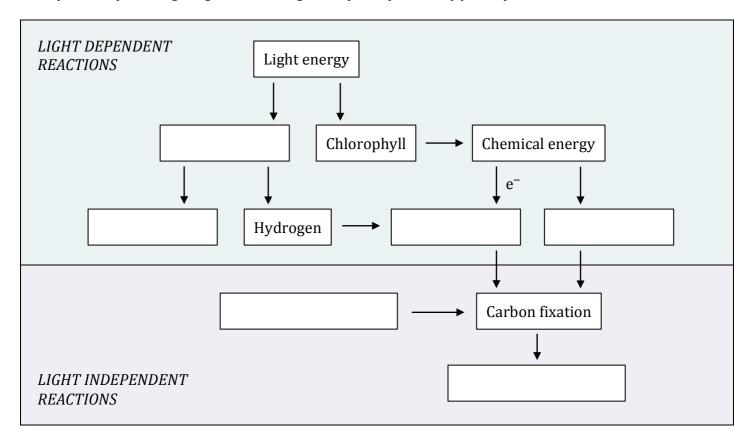
400 nm

700 nm

700 nm

## **Photosynthetic Action**

Complete the following diagram outlining the key components of photosynthesis



Summarise the key events of the two stages of photosynthesis
Light Dependent Reactions:
Light Independent Reactions:
Outline how photosynthetic pigments can be separated via chromatography

## **Measuring Photosynthesis** Outline the law of limiting factors List three conditions by which photosynthesis can be detected and suggest how they can be measured Explain the effect of different factors on the rate of photosynthesis Rate of Photosynthesis Rate of Photosynthesis Rate of Photosynthesis **Light Intensity Temperature** CO<sub>2</sub> Concentration Light Intensity: .....

CO<sub>2</sub> Concentration: .....