

## YEAR 1: INDEPENDENT STUDY ON BIOPSYCHOLOGY

Make notes on the material below using the Biopsychology information pack and videos on <http://www.psych205.com/biopsychology.html>

- **Localisation of function in the brain and hemispheric lateralisation**

**These notes will provide you with the core knowledge you need this topic.**

Skill	Key questions	Notes complete	How well do you understand this? Write RED, AMBER or GREEN
<b>Localisation of function</b>			
AO1	What is <b>localisation</b> ?		
AO1	What are the <b>roles</b> of these areas of the brain and can you label where they are on a diagram: <b>Motor, somatosensory, visual, auditory, Broca's, Wernicke's</b>		
AO1	How many hemispheres is the brain divided into?		
AO1	What is the <b>cerebral cortex</b> ?		
AO1	What are the <b>4</b> lobes of the brain called and what are their functions?		
<b>Plasticity and Functional Recovery of the Brain after Trauma</b>			
AO1	What is <b>brain plasticity</b> ?		
AO1	When do most changes in the brain take place?		
AO1	What does the term ' <b>synaptic pruning</b> ' refer to?		
	Who were <b>Maguire's</b> participants? Why were they chosen?		
AO1	Which part of the brain is associated with <b>spatial</b> and <b>navigational skills</b> ?		
AO1	What were Maguire's main <b>findings</b> ?		
AO1	Which part of the brain tends to be <b>bigger</b> in people who can speak more than one language? (Mechelli et al.)		
AO1	What is <b>functional recovery</b> ? At what speed does it occur?		
AO1	How does brain recovery actually work?		
AO1	Can you describe 3 examples of <b>structural changes</b> that can occur in the brain?		
<b>Lateralisation- Split Brain research</b>			
AO1	What is <b>hemispheric lateralisation</b> ?		
AO1	What is the <b>corpus callosum</b> ?		
AO1	<b>What</b> does split brain surgery involve and <b>why</b> do people have the surgery?		

A01	What is the <b>aim</b> of split brain research?		
A01	What are the key <b>features</b> of <b>Sperry's sample</b> used in split brain studies?		
A01	What are the key features of Sperry's <b>procedure</b> (including the equipment used and the tasks that the participants had to complete)?		
A01	What were Sperry's key <b>findings</b> ?		