**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.**

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| **Skill** | | **Key questions** | **Notes complete** | **How well do you understand this?**  **Write RED, AMBER or GREEN** |
| **Localisation of function** | | | | |
| AO1 | | What is **localisation**? |  |  |
| AO1 | | What are the **roles** of these areas of the brain and can you label where they are on a diagram:  **Motor, somatosensory, visual, auditory, Broca’s, Wernicke**’s |  |  |
| AO1 | | How many hemispheres is the brain divided into? |  |  |
| AO1 | | What is the **cerebral cortex**? |  |  |
| AO1 | | What are the **4** lobes of the brain called and what are their functions? |  |  |
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| **Plasticity and Functional Recovery of the Brain after Trauma** | | | | |
| AO1 | | What is **brain plasticity**? |  |  |
| AO1 | | When do most changes in the brain take place? |  |  |
| AO1 | | What does the term ‘**synaptic pruning’** refer to? |  |  |
|  | | Who were **Maguire**’s participants? Why were they chosen? |  |  |
| AO1 | | Which part of the brain is associated with **spatial** and **navigational skills**? |  |  |
| AO1 | | What were Maguire’s main **findings**? |  |  |
| AO1 | | Which part of the brain tends to be **bigger** in people who can speak more than one language? (Mechelli et al.) |  |  |
| AO1 | | What is **functional recovery**? At what speed does it occur? |  |  |
| AO1 | | How does brain recovery actually work? |  |  |
| AO1 | | Can you describe 3 examples of **structural changes** that can occur in the brain? |  |  |
| **Lateralisation- Split Brain research** | | | | |
| AO1 | What is **hemispheric lateralisation**? | |  |  |
| A01 | What is the **corpus callosum**? | |  |  |
| A01 | **What** does split brain surgery involve and **why** do people have the surgery? | |  |  |
| A01 | What is the **aim** of split brain research? | |  |  |
| A01 | What are the key **features** of **Sperry’s sample** used in split brain studies? | |  |  |
| A01 | What are the key features of Sperry’s **procedure** (including the equipment used and the tasks that the participants had to complete? | |  |  |
| A01 | What were Sperry’s key **findings**? | |  |  |