**Flipped Learning Exercise for Brain Plasticity & Functional Recovery**

**Brain plasticity:**

**Task A:** Watch the clip on the Biopsychology page of the website entitled ‘**your brain is plastic’**, and read the sections of the information sheet on brain plasticity to enable you to answer the following questions:

1. What exactly is meant by the term ‘brain plasticity?

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1. When do most changes in the brain take place?

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1. What does the term ‘synaptic pruning’ refer to?

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1. Who were Maguire’s participants?

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1. Which part of the brain is associated with spatial and navigational skills?

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1. Sketch how a graph might look for the variables *time* *spent in the job* and *volume of grey matter in the posterior hippocampus*. Label the axes and give it a title
2. Which part of the brain tends to be bigger in people who can speak more than one language?

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**Task B: Research on Brain plasticity.**

**Using your pack read carefully and write down at least two pieces of research that has been conducted in plasticity. Make sure one of them is Maguire.**

|  |  |
| --- | --- |
| **Maguire (2000)** | **Research by…** |
|  |  |

**What does the research suggest?**

**Functional Recovery:**

**Task C:** Read the information on the sheet relating to functional recovery of the brain after trauma. Then, watch the clip on the Biopsychology page of the website relating to the case of Jodie

1. Explain how Jodie was able to recover functioning even though she only had a half a brain. Use what you have learned about functional recovery of the brain in your answer. Include examples of structural changes that take place in the brain after trauma.

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