

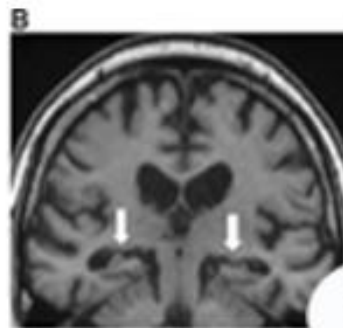
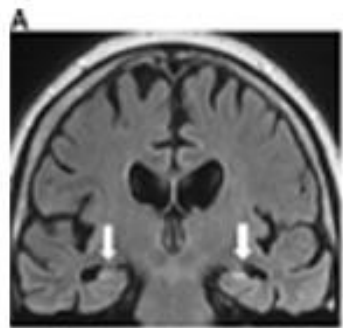
Learning = rewiring the brain

- Brain physically changes during learning (**Neuroplasticity**)
- Brain made up of **neurons** (nerve cells)
- **Learning:** rewiring the neurons to form inter-connections:
 - If used repeatedly **strengthen..**
 - If neglected **weaken..**
 - ..no known limit to how many can be formed

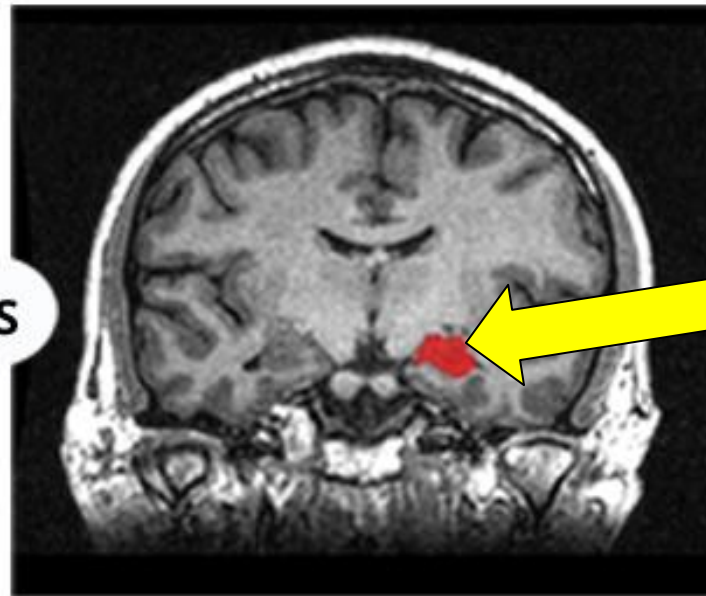


Evidence: Taxi drivers

Research by University College London shows that taxi drivers' brains **grow, develop** and **get larger** as they learn 'the knowledge'



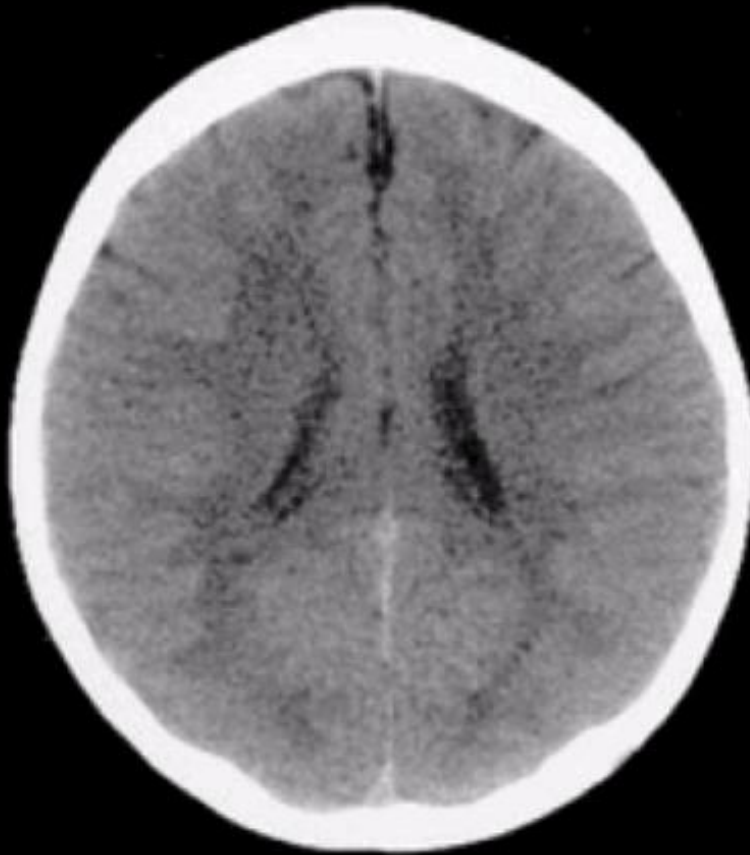
VS



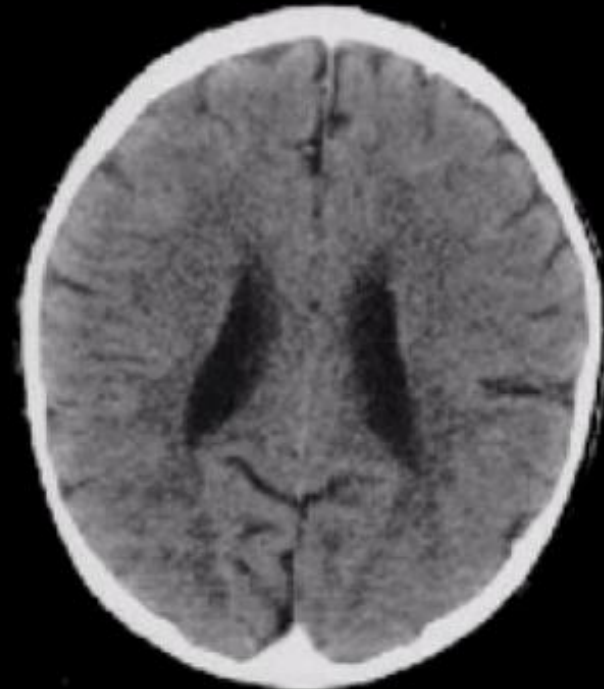
Enlarged
Hippocampus

Evidence: child neglect

3 Year Old Children

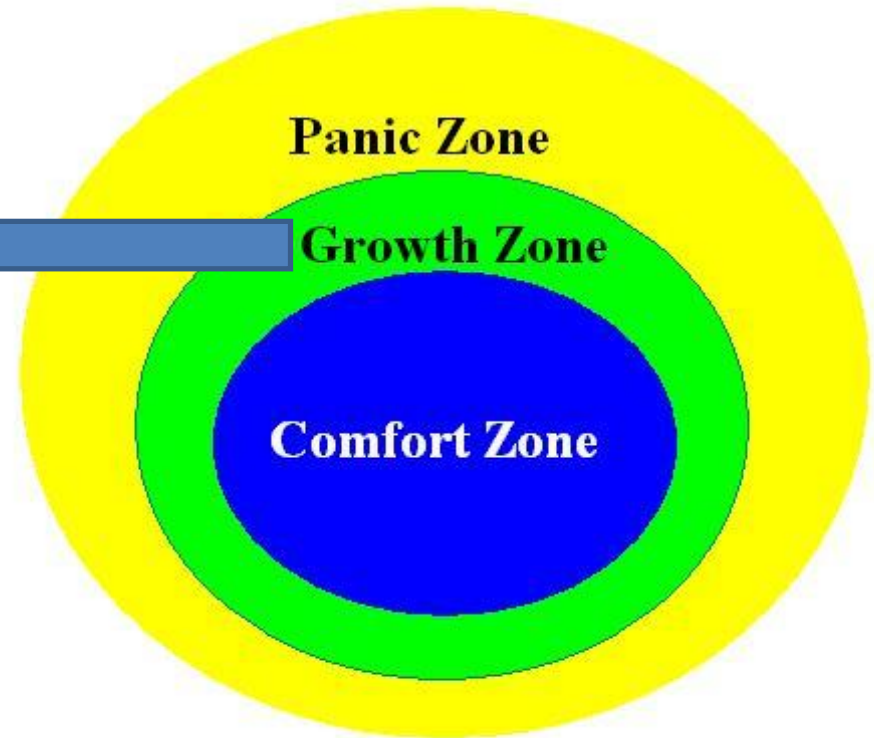
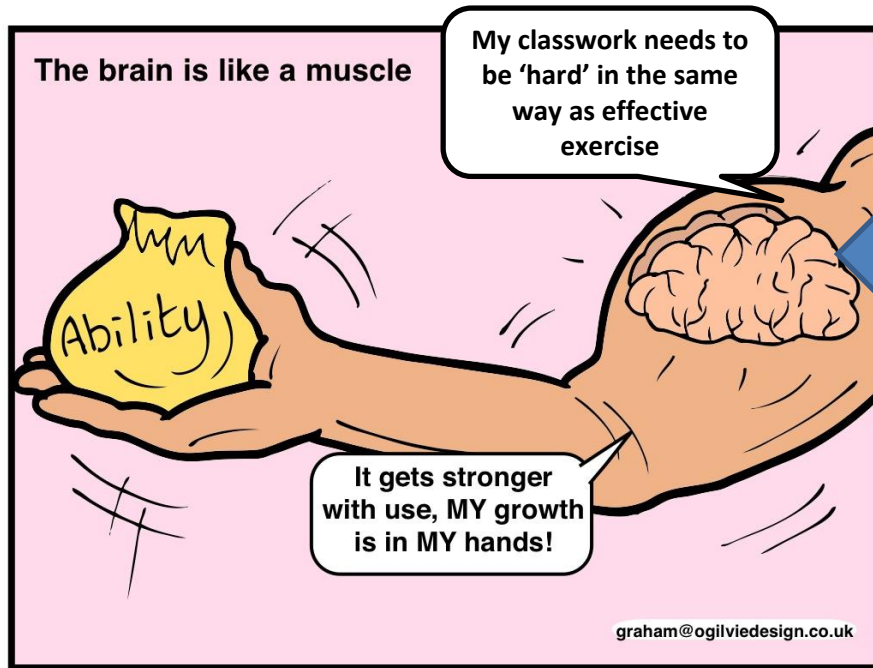


Normal



Extreme Neglect

School's response: lessons



- Educating students on GM and brain theory
- Less 'comfortable' activities in lessons
- More willing to let students 'fail' in safety of classroom
- Continue focus on feedback dialogue

What you may notice

“My teacher told us that we were learning was challenging and that it might take a while to ‘get it’”

“I didn’t fully understand what we learnt in Geography today”

“My homework says to read ahead for our next lesson”

“I was asked to share a mistake I made with the other students”

“My teacher has started offering us choice in how we learn”

“I’m stressed – I made a mistake and prefer my book to be perfect and neat”

