



GirlsGotSTEAM x Simply Neuroscience
“Neurosurgery: An Introduction” SciNotebook

Program:	Neurosurgery: An Introduction
Age Range:	7-12
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Description:	Step 1: Wake up! Step 2: Come to this workshop! Step 3: Have fun! Learn about different neurosurgery processes!

Pre-Workshop Questions

What do you think of when you hear of neurosurgery?

How safe do you think they are, and what are the possible risks of neurosurgery?



Introduction

As the following neurosurgery types are introduced, under each type, list features of each type.

Neurosurgery Types	Features
Vascular	
Stereotactic	
Oncological	
Skull Base	
Spinal	
Peripheral Nerve	
Pediatric	



Matching Activity

As the pictures and videos are shown, list the neurosurgery types that correspond with these visuals.

Visual	Surgery Type
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	



Research

What neurosurgery type will you research and why?

Why was the surgery done?

How was the surgery done?

What is the science behind the surgery?

What is the aftermath behind the surgery?



What was good and bad about this surgery?

How can your responses to the previous question be applied to future surgeries?



5. Make-up a scenario in which a person needs to have surgery. Provide context, the surgery name, and how it would be performed.