

STEM4Me

Dr Josephine Chen-Wilson, Dr Kimberly Hill, Dr Rachel Maunder, Dr Rob Lyon, Dr Sarah Mansbridge




1




			
PROJECT RATIONALE AND OBJECTIVES	STEM BUDDIES' SELECTION AND TRAINING	WORKSHOP EXPERIENCE	SCHOOL ENGAGEMENT AND EVALUATION PLAN



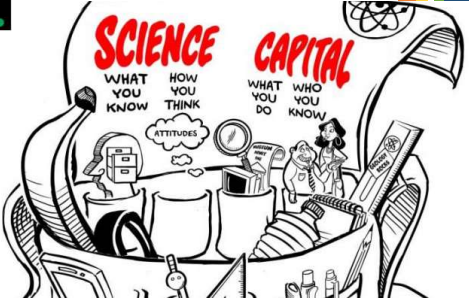





2

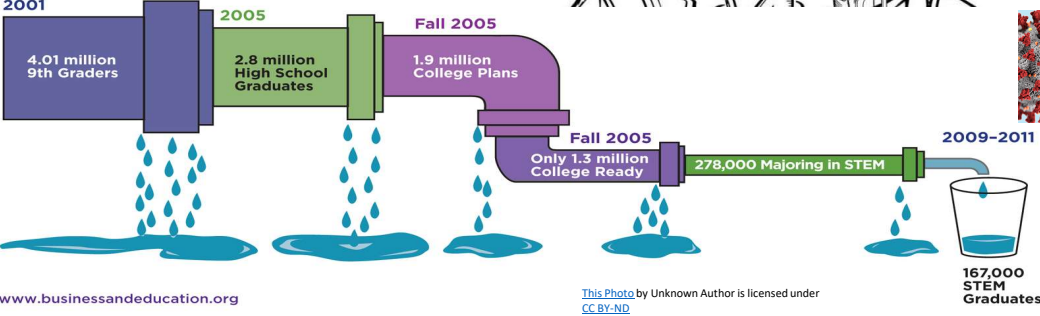


Project Rationale






A Leaking STEM Pipeline



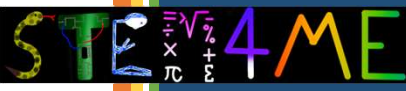
www.businessandeducation.org


This Photo by Unknown Author is licensed under CC BY-ND




3


Project Objectives



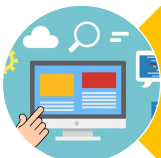




To carry out a changemaking scheme whereby students in Psychology and Sports Science will be trained to work as STEM buddies in local IMD Q1&Q2 schools.



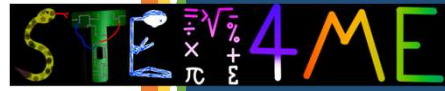
To raise aspiration and interest in STEM subjects in local primary school children through the integrated STEM4Me activities.



To develop a website for children, STEM buddies, teachers and the UON teams as the beginning of a local STEM learning community

4

STEM buddies' selection and training

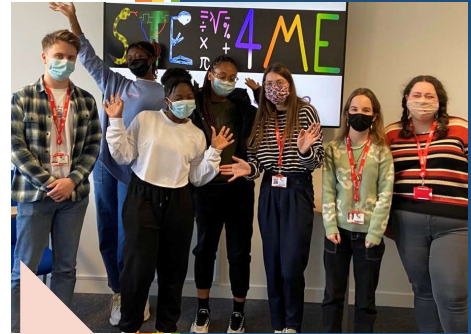


Hello! My name is Ama and I am a second year psychology student at the university of Northampton.

Selection:

Student submitted written application and short video
S4M team reviewed the submissions

Training:



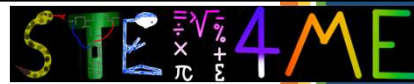
Why STEM4Me, Lesson planning, safeguarding

Workshop design and practice run

Ongoing debriefing and discussion during and after each school visit

5

The world of sport and exercise



Sport and/or exercise?

Muscles, bones and heart

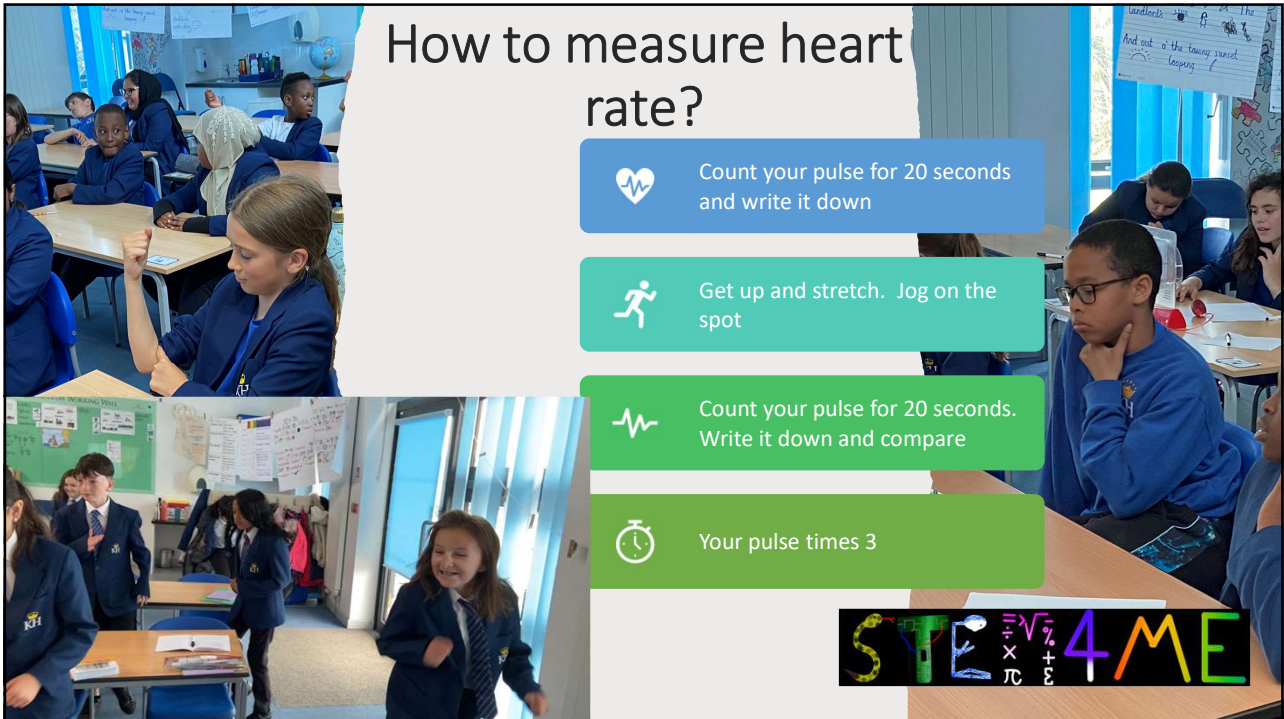
Psychology and exercise (links to emotion)





Benefits of exercise (links to brain)



6


How to measure heart rate?



-  Count your pulse for 20 seconds and write it down
-  Get up and stretch. Jog on the spot
-  Count your pulse for 20 seconds. Write it down and compare
-  Your pulse times 3

STEM 4ME

7





How your brain works

What is Psychology

Getting to know your brain

Jobs our brain does

Make your own brain hat

8

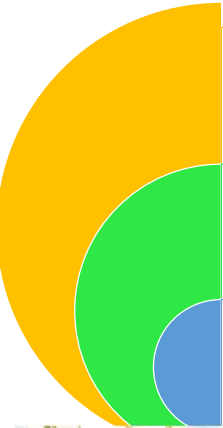


How do these children feel? Which part(s) of the brain recognize 'feelings'?







9

Workshop design



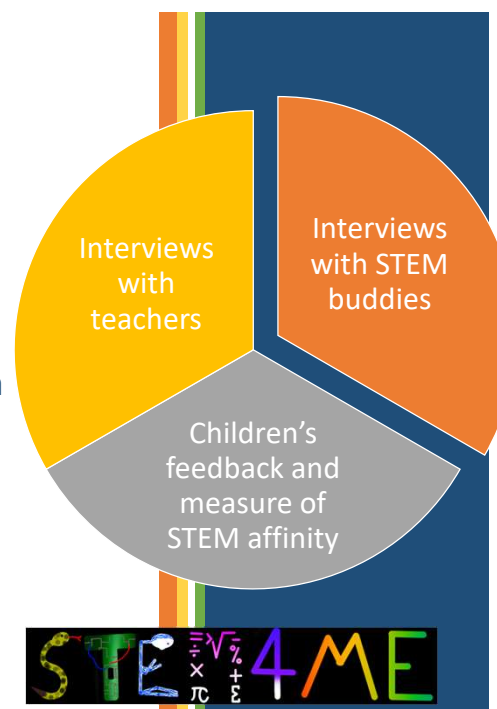
- Engagement**
 - Quizzes
 - Demonstrations
- Understanding**
 - Discussion, Q&A
 - Hands-on activities
- Enjoyment**
 - Making your own brain hat
 - Measuring heart rate

10

School engagement and evaluation plan

- 10 STEM buddies selected and trained
- 3 schools signed on
 - Workshops delivered and planned
- STEM4Me schools invited to STEAM Northants in June
- STEM4Me [website](#) for resources
- Evaluation plan



11

A slide titled 'Any Question?' with a dark blue background. The text 'Any Question?' is written in large white font. Below the text is the STEM4Me logo. To the left of the logo are icons for a microscope, a laptop, test tubes, and a clipboard. To the right is a photograph of a woman with glasses and a white t-shirt with a butterfly design, smiling. The background of the photo shows a window with a white orchid plant on the sill.

12