

## WBHS INDUCTION LESSONS 2020

# SCIENCE

What even is science? Think about how you would answer this question if someone asked you...



Click the link and read what NASA has to say... https://spaceplace.nasa.gov/science/en/



What even is science? Think about how you would answer this question if someone asked you... Science consists of observing the world by watching,

listening, observing, and recording. Science is curiosity in thoughtful action about the world and how it behaves.



Click the link and read what NASA has to say... https://spaceplace.nasa.gov/science/en/

## What is the link between the images below? What does each one represent

#### They show the different 3 areas of science you will study...



Biology

The branch of science that studies of Living organisms (Some areas you will study at WBHS are... cells, plants, ecosystems, food webs, human anatomy, organ systems etc.)



Chemistry

The branch of science that studies the properties of matter and how matter interacts with energy. (Some areas you will study at WBHS are... Atoms, the periodic table, how substances react, reactions in the environment, chemistry of the atmosphere etc.)



The branch of science that studies matter and its motion as well as how it interacts with energy and forces (Some areas you will study at WBHS are... Space, electricity, forces, energy, waves etc.)

### Science at



- At WBHS you will get 6 science lessons per fortnight usually 3 every week (1 Biology, 1 Chemistry and 1 Physics)
- You may have 3 different teachers (one for each science) and 3 different science classrooms to enjoy <sup>(C)</sup>
- Physics classrooms are located in D Block, Chemistry upstairs in A and C Block and Biology classrooms are all downstairs in C Block – Have a look to try and find them when you get a map <sup>(</sup>)

## How to be a good scientist? List all of the key skills you need...



## How to be a good scientist? List all of the key skills you need...

Problem solving

Data Analysis

Following written methods

Written communication

Team work



Time management

Verbal communication

Meet deadlines

Ability to work alone

Able to work with precision

Collaborate on group projects What are you most looking forward to in science lessons at high school?

What do you enjoy most about science? Which of the 3 do you predict will be your new favourite?

What science skills do you think are your strengths?

What science skills do you think you will need to work on?

#### Science has been in the news a lot recently...

It shows us how everyone needs an understanding of science to make sense of bigger worldwide events

Your next tasks will be to find out about some of sciences unsung heroes...





For each science hero below, research what they do in their job and think about how they have helped during the pandemic – there are some links on the next slides to help you <sup>(C)</sup> Challenge – can you think of 2 more science based careers that have been heroic?



Science Hero	What do they actually do?	How has it been important during the pandemic?
Epidemiologist		
Immunologist		
Engineer		
Architect		
Pharmacist		
Bioanalytical Scientist		

#### Unsung Superheroes of science

- Epidemiologist - <u>https://kids.niehs.nih.gov/topics/how-</u> <u>science-works/epidemiology/index.htm</u>
- Immunologist https://targetjobs.co.uk/careersadvice/job-descriptions/279813immunologist-job-description
- Engineer https://www.sciencekids.co.nz/sciencefact s/careers/engineer.html
- Architect -<u>https://wiki.kidzsearch.com/wiki/Architect</u>
- Pharmacist - <u>https://targetcareers.co.uk/career- sectors/healthcare-and-veterinary-medicine/1014243-careers-in-pharmacy</u>
- Bioanalytical scientist https://edu.rsc.org/jobprofiles/bioanalyticalscientist/4010851.article





celebrated or recognized.

### What's next?





- In the summer holidays your science task will be to choose an area of science to research from a list of questions provided
- You will produce a scientific information poster about your chosen question
- This will let your new science teachers know a bit more about your interests and scientific ability <sup>(2)</sup>



### Printable sheets

#### WBHS What is Science?

		·	
What do you think science actually is?			What are you most looking forward to in science lessons at high school?
Below each image write a could of bullet points to describe what			
you think it represents			
HISON OF HICLOR		$ \begin{array}{c} F_{n} \underset{i=1}{\overset{(n)}{\underset{n=1}{\underset{n=1}{\overset{(n)}{\underset{n=1}{\underset{n=1}{\overset{(n)}{\underset{n=1}{\underset{n=1}{\overset{(n)}{\underset{n=1}{\underset{n=1}{\overset{(n)}{\underset{n=1}{\underset{n}}{\underset{n}}}}}}}}}}}}}}}}}}}}}}}}}}}}$	What do you enjoy most about science? Which of the 3 do you predict will be your new favourite?
			What science skills do you think are your strengths?
List the skills that you think you would need to be a successful scientist at WBHS		What science skills do you think you will need to work on?	

For each science hero below research what they do in their job and think about how they have helped during the pandemic – there are some links on the next slides to help you ☺ Challenge – can you think of 2 more science based careers that have been heroic?



Science Hero	What do they actually do?	How has it been important during the pandemic?
Epidemiologist		
Immunologist		
Engineer		
Architect		
Pharmacist		
Bioanalytical Scientist		