Controlling the spread of infections

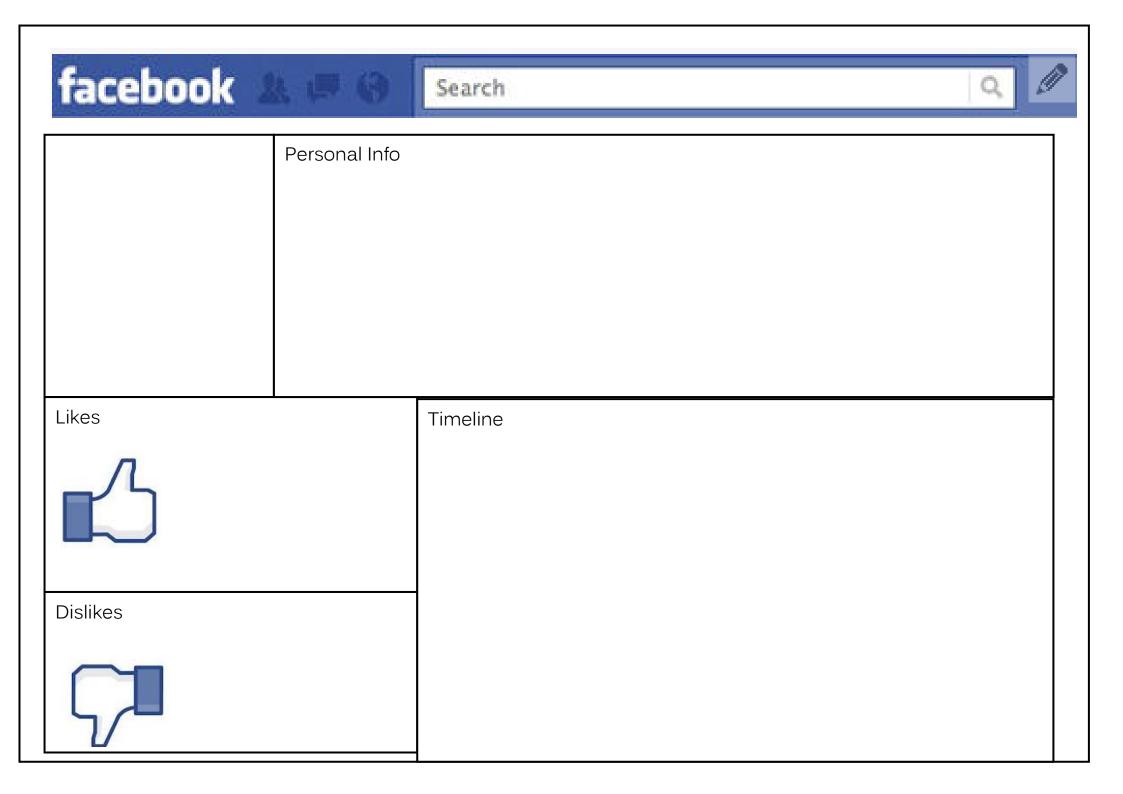
Brief:

You are going to design a media campaign to inform people of how to control the spread of infections, using the Flu Virus as your example.

Department: SCIENCE	Start Date:	Due	Date:	
Title of Task: Controlling the spread of infections	How should I submit my work? As directed by the teacher			
Aims/Learning Outcomes: To have an understanding on the spread of diseases. Understand the vaccination process and understand its development.		Success Criteria: L4 Describe the flu virus L5 Understand how a virus effects the body and how vaccination works L6 Understand Jenner's limitation L7 Understand misconceptions of vaccination		My Target Level:
What you need to do		Extension Task		Useful Topic Related Words
Guidelines: To produce a facebook page on viruses, to produce informative leaflet with graph data on stopping the disease, to produce an informative documentary vaccination through the ages and produce a informative documentary vaccination through the ages and produce a informative documentary vaccination through the ages and produce a informative documentary vaccination through the ages and produce a informative documentary vaccination through the ages and produce a informative documentary vaccination how the flu is spread and how to understand how vaccinations work. Understand how vaccinations work. Use correct spelling, punctuation and grammative documentary vaccination and link patterns to spread of the product	ace an e spread of showing rmative prevent it ar at of diseases	You Could: Evaluate current vaccination programmes .		Virus Infection Symptoms Incubation Inoculation Polio Microbe Pathogen MMR Measles Mumps Rubella Side effects immunity

These steps will be helpful when completing the project. Your teacher will mark your work at these checkpoints				
Checkpoint 1				
What is the flu? Facebook page. Homework activity				
Extension				
Checkpoint 2				
Stopping the spread of infections. Informative leaflet with graph/data etc				
Extension				
Checkpoint 3				
Vaccination – From Jenner to future generations (vaccinations through the ages) – news report/ documentary. Group activity				
Extension:				
Checkpoint 4				
Leaflet on encouraging vaccinations and reasons for.				
Extension				

Please remember to plan out your time carefully and ask your subject teacher if there is anything that you do not understand.



Stopping the spread of infections data sheet

Brief Description

Use this secondary data as part of your 'stopping the spread of infections'. The data is based on the outbreak of a killer flu virus, you need to complete the data in the table and then plot the data on a suitable graph

Task 1: complete the following table.

Withvaccine

Weeks from the start of	Number infected	Number of new	Number of new	Total deaths during
the epidemic	this week	flu cases	deaths	epidemic
0	50	5	-	-
1	250	25	-	-
2	1,250	125	1	
3	6,250	625	6	
4	31,250	3,125	31	
5	156,000	15,600	156	

Task 2: plot a graph showing the number of deaths during the epidemic, when there is no vaccine available.

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Brief Description

Use this secondary data as part of your 'stopping the spread of infections'. The data is based on the outbreak of a killer flu virus, you need to complete the data in the table and then plot the data on a suitable graph

Task 1: complete the following table.

Without vaccine

Weeks from the start of	Number infected	Number of new	Number of new	Total deaths during
the epidemic	this week	flu cases	deaths	epidemic
0	50	10,	1	1
1	500	100	10	
2	5,000	1,000	100	
3	50,000	10,000	1,000	
4	500,000	100,000	10,000	
5	5,000,000	1,000,000	100,000	

Task 2: plot a graph showing the number of deaths during the epidemic, when there is no vaccine available.