

Objectives:

- To define 'vaccine'.
- To explain how a vaccine works.
- To describe how a vaccine is developed.
- To discuss how vaccines can help you and your community.

Curriculum Links:

• **PSHE (from PSHE Association)** - **KS2: H10.** How medicines, when used responsibly, contribute to health; that some diseases can be prevented by vaccinations and immunisations; how allergies to vaccines can be managed

Key Vocabulary:

- Antibody
- Pathogen
- Immune system
- Vaccine
- disease

Resources:

- PowerPoint
- Battleship grids and microbe images
- Scissors
- Glue

FAQs:

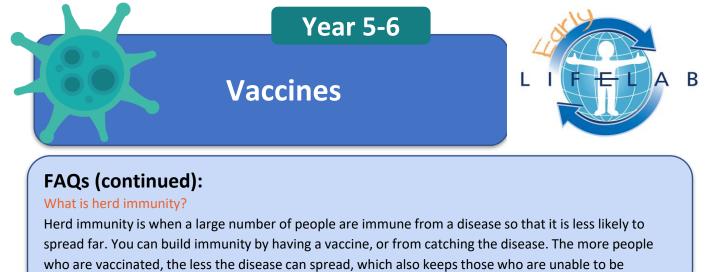
Can everyone have a vaccine?

Most vaccines are suitable for everyone. Some vaccines may not be suitable for use with children or people who have a health condition or treatment that impairs the function of their immune system. If an individual is poorly or has a fever, then their vaccination may be postponed until they are better. What is a booster vaccine and why do we need it?

For some vaccines a further round of exposure to the vaccine is required to increase (or 'boost') immunity against the disease. Immunity against some diseases can fade over time and it is important to keep up to date with booster vaccines to ensure as good protection as possible.

One example of routine childhood vaccinations is MMR vaccine. The first dose is given at the age of **12 months** and the second dose is given at around three years and four months, before starting school. Having both doses gives long lasting protection against measles, mumps and rubella. How long does it take to develop a vaccine?

Normally it can take around 10 years or more for a vaccine to be developed. In the case of COVID-19 this has been much quicker as scientists from around the world had made major advances in vaccine development over recent years and shared information based on existing research into other Coronaviruses. Extra funding was also made available and vaccine manufacture began at the same time that the vaccine was being tested in people – called the 'trial phase'.



Introduction:

vaccinated safe.

5 mins

20 mins

5 mins

Watch COVID-19 Warriors Video Introduction.
Use PowerPoint images to talk through main points in video and answer questions:
How does a vaccine work?
Why do we vaccinate? (herd immunity infographic)- link to how it benefits themselves/community
How is a vaccine developed?
Further information about how a vaccine is developed can be found attached to this plan, with an extra optional slide about what a vaccine is made from at the end of the PowerPoint.

Main Activity:

Ask children to remember illnesses that we can be vaccinated against, and the benefits of preventing these illnesses.

Show pictures of microbes- COVID-19, flu, measles and whooping cough, and tell them that we will be using these diseases to play battleships.

Children should be given a grid and a set of microbes and be split into pairs. They need to hide their grid from each other and stick on the microbes wherever they wish.

They can begin a game of Battleships. After 5 minutes flash the VACCINATED slide onto the board and children to remove their barriers so they can see where the microbes are and finish the game really easily.

Emphasise how much easier it is for the immune system to fight a disease once it can recognise it.

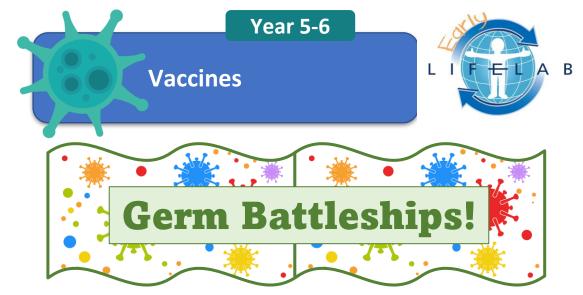
Plenary:

- Ask children to explain to their partner how a vaccine works.
- Ask children to talk about how being vaccinated can help individual

children & their community.

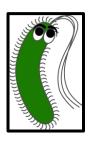
Possible Extension Activities:

- Juno Island board game- a printable game showing the importance of vaccination. <u>https://www.immunology.org/sites/default/files/Juno%20island%20board%20game.pdf</u>
- Video with more detail about how vaccines work. <u>How do vaccines work? YouTube</u>
- Herd Immunity Activity https://www.sciencebuddies.org/stem-activities/model-herd-immunity



This is your game card, cut and paste your germs onto the grid for your partner to find.

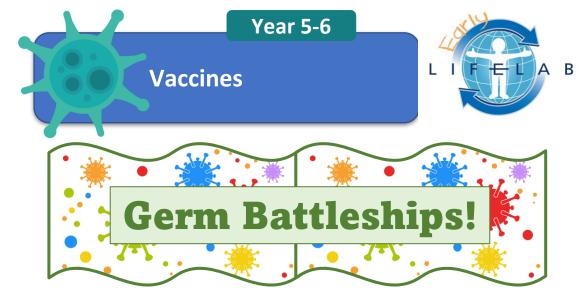
	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									





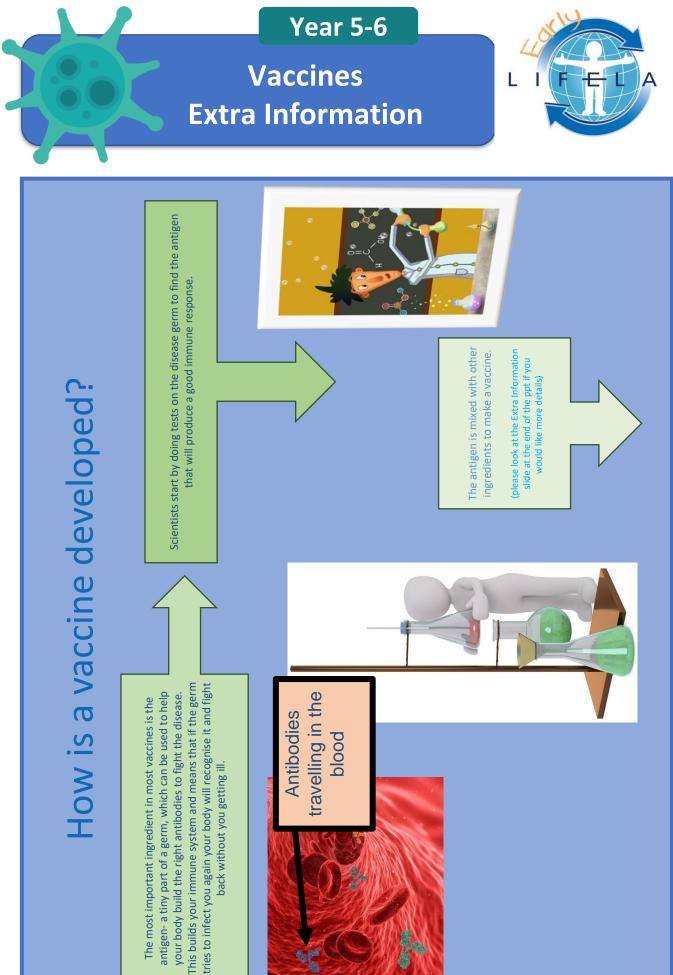






Use this game card to record where your partner's germs are.

	A	B	C	D	E	F	G	H	I
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									



B

Year 5-6

Vaccines Extra Information



