



Science Debate Kit:

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Debate Kit: Vaccinations Should children be required to have all their vaccinations before they can go to school?

A structured practice debate on a controversial topic. The different 'rounds' of the debate help students think through the issues and reconsider their opinions. The structure also shows them how to build a discussion and back up their opinions with facts.

You can use all eight characters, or fewer, as you wish.

The minimum is the four essential characters (**in bold**), this gives two for and two against.

ıl	Characters Yes - vaccines should be compulsory to attend school	No - vaccines shouldn't be compulsory to attend school
	• Henry Sparrow – Nurse • Hasmita Myska – Parent • Polly Jones – Philosopher • Steve Bridgeford – Parent	 Martha Guard – Community health visitor Flora Eccrington – Author Ethan Groves – Anti-vaccination activist Tim Lawrence – Unvaccinated teenager

Facilitation tips

Ensure pupils know there is no right or wrong answer. Be observant of those who want to speak and are not getting a chance. Encourage students to give a reason for their opinions.

ason Designed for 11 years and up

For groups who may need extra support you can put the following prompt sentences upon the board:

- "I think we should/shouldn't make vaccinations compulsory because..."
- "I think is the most important point to think about."

Learning notes			
Learning objectives:	Other learning outcomes:	Curriculum points covered:	
 To practise discussing and debating issues 	 Consider social, ethical and factual issues in an 	Working scientifically Societal aspects of scientific evidence. 	
and expressing an opinion.	integrated way. Think about different points 	Developing an argument.	
• Understand more of the technical, social	of view. • Learn to back up opinions	Substantive Learn how vaccines work. 	
and ethical issues around vaccinations.		Learn how our bodies protect themselves against infection.	

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Debate

I didn't have the MMR jab because my parents worried about autism. Since then science has shown the vaccine is safe. But my dad is convinced vaccines aren't safe. I want to go to school, but I might not be able to if they change the law.

Fact: Andrew Wakefield did a study in 1998 that seemed to show a link between the MMR jab and autism. He has since been struck off by the General Medical Council for dishonesty and banned from ever working again as a doctor in the UK. Investigation has shown that his research was deeply flawed.

Issue: Every child should have the opportunity to get an education. Vaccines should not be compulsory in order to attend schools.

Question: Why give unvaccinated children MORE problems?



Debate

I'm doubtful about the safety of vaccines, especially MMR. I don't believe what doctors and scientists are saying now. They can't be SURE it won't cause a problem, so why take the risk? I'd rather let my kids take their chances with catching the infection. I had measles when I was a kid and I was fine. It's probably better for their immune system to fight things off themselves.

Fact: In 1955, 200,000 children in the USA were mistakenly given a polio vaccine when the virus hadn't properly been inactivated. 10 of them died and 200 were paralysed.

Issue: It should be your choice whether to have something done to your body, or your child's body.

Question: If there is any risk at all to having a vaccine, then shouldn't we have a choice of whether to take it?



Debate Hasmita Myska

Parent

R. C.

My beautiful boy has leukaemia, a sort of cancer. He's having chemotherapy and hopefully he will make a full recovery. But the treatment suppresses his immune system so he can't have any live vaccines, like MMR, until he's better. There are some unvaccinated children at his primary school. I'm terrified he's going to catch measles from an unvaccinated child and die from that, and there's nothing I can do to protect him.

Fact: There will always be some people who can't have a vaccine for medical reasons. But if enough other people are vaccinated, the infection can't spread, so everyone is protected. This is called herd immunity.

Issue: Herd immunity depends on high numbers of people being vaccinated. I think we SHOULD restrict people's freedom if they are putting others at risk. Just like it's illegal to drink and drive.

Question: My child has no choice, he can't be vaccinated. Why do other parents have the right to put my child at risk?





I'm writing a book about smallpox, an infection that could kill 80% of infected children. The earliest attempts to immunise against it were called variolation. In 15th Century China they would blow powdered smallpox scabs up people's noses! 18th Century vaccines based on cowpox were safer but even so, some people were opposed to them.

Fact: In 1853 the British government made smallpox vaccinations compulsory for children and many people objected. There were anti-vaccination riots in several cities.

Issue: It's wrong to try to force people to do things, and it often backfires, making them more determined not to do it.

Question: Why try to force people to do something, when you could work with them, and try to persuade them instead?





Polly Jones – Philosopher

I study moral questions to do with health and medicine. I believe vaccinations should be compulsory. If enough people are vaccinated then EVERYONE benefits from herd immunity. So I think it's only fair that everyone should take part (unless there are medical reasons why they can't).

Fact: Some vaccines have to be 'live' vaccines to work (this includes measles, mumps, rubella and the new flu vaccines being given to children as a nasal spray). That means they give you a very weak form of the infection and could make you a bit ill.

Issue: People who choose not to vaccinate know that if everyone else DOES vaccinate, their children are probably still safe. So they are freeloaders!

Question: Why should some people benefit without the inconvenience or risk (however small) of getting the vaccine?



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Henry Sparrow -Nurse

I love vaccines! My Dad caught polio as a child and it left him paralysed in one leg for life. It really affected him. Yet it could have been prevented with one little vaccine. When I give kids jabs I tell them I'm giving them a super-power, making them immune to an infection. I think it's a miracle. I think we should do everything we can to make more children protected.

Fact: If a child is old enough to understand and make their own decisions, a doctor or nurse can give the child medical treatment, whether their parents agree or not. GPs or nurses can always give 'catch-up' immunisations if they are asked.

Issue: Compulsory vaccination to go to school would be one extra push towards all kids being immunised. If it saves just one child from a horrible illness then I think it's worth it.

Question: If modern medicine CAN protect children against dangerous infections, shouldn't we do everything to make sure it DOES?



Martha Guard – Community health visitor

I'm a health visitor in a big city. I visit new mums and try to help make sure their babies are safe and healthy. Some of the mums I visit have lots of problems - mental health issues, poverty, violent partners or ex partners. Some of them don't speak good English. It is hard for some families to access services.

Fact: In a 2006 study, roughly 3% of 9 month old babies had missed SOME of their immunisations. They were generally from disadvantaged families. In the same study roughly 1% were NOT IMMUNISED AT ALL, and generally they were from more well off families who objected to immunisations.

Issue: Most of the kids who miss immunisations, it's just because their families are struggling and have problems.

Question: Just because children haven't received all their vaccines doesn't mean they shouldn't attend school. What good will it do to punish people who are already struggling?



Steve Bridgeford Parent

When my daughter Anna was a baby, I lost my job. The company I worked for went bankrupt. I didn't get the pay they owed me, we couldn't pay our mortgage. In all that stress, we forgot Anna's routine injections. Shortly after she started school she got Meningitis C. She nearly died, and was left with brain damage and hearing problems. If she had to have her vaccines before starting school, we would have had her vaccinated!

Fact: There are different types of meningitis, and three vaccines help protect us against different types - Hib, MenC and pneumococcal. They are all given to babies in their first year of life and protect them for many years.

Issue: I think the child's right to be vaccinated should be the most important thing.

Question: Shouldn't we as a society be protecting children from forgetful parents, or parents who don't agree with vaccines, by making Get me OUI vaccinations compulsory in order to go to school?

