



THIS EXERCISE WAS MODIFIED FROM THE JEA WRITE-OFF CONTEST IN THE SPRING OF 2017.

<http://jea.org/wp/blog/2017/01/26/online-submission-materials-spring-2017-seattle-write-offs-available/>

OTHER PROMPTS ARE STILL AVAILABLE ONLINE FOR PRACTICE

SPRING 2019 — PLASTIC STRAWS

<http://jea.org/wp/blog/2019/02/11/online-submission-materials-2019-anaheim-write-offs-available/>

FALL 2018 — JUULING

<http://jea.org/wp/blog/2018/08/31/online-submission-materials-2018-chicago-write-offs-available/>

FALL 2017 – SERVICE LEARNING

<http://jea.org/wp/blog/2017/09/15/online-submission-materials-2017-dallas-write-offs-available/>

WHAT YOU WILL BE GRADED ON:

Does the infographic:

- Include proper attribution for information.
- Make a point visually using an appropriate format.
- Include typography and artistic details that fit the topic.
- Follow current design trends.

EXERCISE

# Vaccine infographic

**DIRECTIONS:** Using artwork you created or artwork available to you through a Creative Commons reuse license create a infographic using the data below or other data that you source. The final product should be a letter-sized page saved as a PDF.

## PRO & CON ARGUMENTS FOR MANDATORY VACCINES FROM VACCINESPROCON.ORG

### PRO

1. **Vaccines can save children's lives.** The American Academy of Pediatrics states that “most childhood vaccines are 90 to 99 percent effective in preventing disease.” According to Shot@ Life, a United Nations Foundation partner organization, vaccines save 2.5 million children from preventable diseases every year, which equates to roughly 285 children saved every hour.
2. The Centers for Disease Control estimated that **732,000 American children were saved from death** and 322 million cases of childhood illnesses were prevented between 1994 and 2014 due to vaccination. The measles vaccine has decreased childhood deaths from measles by 74 percent.
3. **Major medical organizations state that vaccines are safe.** These organizations include: CDC, FDA, Institute of Medicine, American Medical Association, American Academy of Pediatrics, UNICEF, U.S. Department of Health and Human Services, World Health Organization, Public Health Agency of Canada, Canadian Pediatric Society, National Foundation for Infectious Diseases, and American Academy of Family Physicians.
4. **Adverse reactions to vaccines are extremely rare.** The most common side effect of vaccines, anaphylaxis (a severe allergic reaction), occurs in one per several hundred thousand to one per million vaccinations.
5. **Vaccines protect the “herd.”** Herd immunity (or community immunity) means that when a “critical portion” (the percent of people who need to be vaccinated to provide herd immunity) of a population is vaccinated against a contagious disease it is unlikely that an outbreak of the disease will occur so most members of the community will be protected.

### CON

1. **Vaccines can cause serious and sometimes fatal side effects.** The rotavirus vaccination can cause intussusception, a type of bowel blockage that may require hospitalization, in about one per 20,000 babies in the United States. Long-term seizures, coma, lowered consciousness, and permanent brain damage may be associated with the DTaP (diphtheria, tetanus, and pertussis) and MMR vaccines, though the CDC notes the rarity of the reaction makes it difficult to determine causation.
2. The National Vaccine Information Center says that **vaccines may be linked to learning disabilities**, asthma, autism, diabetes, chronic inflammation, and other disabilities.
3. **Vaccines contain harmful ingredients.** Some physicians believe thimerosal, an organic mercury compound found in trace amounts in one flu vaccine for children and other vaccines for adults, is linked to autism. Aluminum is used in some vaccines and excess aluminum in human bodies can cause neurological harm. Formaldehyde, also found in some vaccines, is a carcinogen.
4. **The government should not intervene in personal medical choices.** Medical decisions for children should be left to the parents or caregivers.
5. **Mandatory vaccines infringe upon constitutionally protected religious freedoms.** Several religions oppose vaccines and mandatory vaccinations. In the ruling for *Cantwell v. Connecticut* (1939; 9-0), the U.S. Supreme Court held that state and local governments’ infringement upon religious freedom is also unconstitutional. Some Christian Scientists consider vaccinations against their religion because founder Mary Baker Eddy said that the “calm, Christian state of mind is a better preventive of contagion than a drug, or than any other possible sanative method ... the ‘perfect Love’ that ‘casteth out fear’ is a sure defense.” Amish communities do not view all vaccinations as “necessary” and some believe that vaccinations weaken the immune system.
6. **Vaccines are unnatural**, and natural immunity is more effective than vaccination. Even pro-vaccine organizations state that natural infection causes better immunity.