**C-1: Science Literacy Essay (scaffolded) – This make-up assignment replaces the artificial sweetener essay**

The powerpoints (which you took notes on already) for vaccine info & science literacy can be downloaded here:

<http://misterwarren.weebly.com/agenda/vaccines>

Introduction Paragraph (1)

-What are vaccines, how do they work, and why are they important for people’s health?

-What, in general, do people opposing vaccination (so called “anti-vaxxers”) think about vaccines?

-What, in general, do you think about vaccines and the anti-vaccination movement?

Body paragraph (2)

-Copy, summarize, or explain the following anti-vaxx argument: Some people are concerned that vaccines have harmful chemicals in them. For example, formaldehyde causes cancer and is still one of the ingredients.

-Counter the above argument by explaining (like you are talking to the person who made the above statement) **two** of the science literacy mistakes this person is making.

-Explain why this specific concern about vaccines is not good evidence against vaccination, and why we shouldn’t be concerned about the formaldehyde from vaccines.

-Describe what you think about this.

Body paragraph (3)

-Copy, summarize, or explain the following anti-vaxx argument: Jenny McCarthy and thousands of other parents shared their personal experiences about how their children were vaccinated and then developed autism shortly after, so they believe that the autism was caused by the vaccination.

-Counter the above argument by explaining (like you are talking to Jenny McCarthy) **one** of the science literacy mistakes she is making.

-Explain an alternative reason for these parents’ experiences.

-Describe what you think about this.

Body paragraph (4)

-Copy, summarize, or explain the following anti-vaxx argument: There’s a correlation between the increase in vaccination and diagnosis of autism (both increased over the last 20 years). For this reason, President Trump said “The FDA should immediately stop heavy dose vaccinations and you will see a huge decrease in children with autism”

-Counter the above argument by explaining (like you are talking to the president) **one** of the science literacy mistakes he is making here.

-Explain an alternative reason why both vaccine use and autism have increased in recent history..

-Describe what you think about this.

Body paragraph (5)

-Copy, summarize, or explain the following anti-vaxx argument: Some dude thinks that vaccines are bad because they’re not natural, and that it’s better for people to develop immunity to these viruses naturally.

-Counter the above argument by explaining (like you are talking to that dude) **one** of the science literacy mistakes he is making here.

-Explain why his suggestion won’t actually work.

-Describe what you think about this.

Body paragraph (6)

-What is herd immunity, and how does it work?

-Support your explanation by describing an example of herd immunity working.

-Describe what you think about this.

Concluding paragraph (7)

-Re-state your science-based stance on the health effects of vaccination.

-Explain what you think the laws should be regarding mandatory vaccinations vs. parents’ right to choose and any exceptions to those rules (for example, vaccines are mandatory but parents can opt out of them for personal beliefs). Make sure to justify whatever you decide.