Name	Date	Period
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Pathogen Cards Assignment

Research your assigned pathogen for the following information:

- Type of pathogen
 - a. Is it a virus or bacteria?
 - b. Brief description of the pathogen
- 2. How is it transmitted?
- 3. Is there a part of the body it attacks particularly? If so, which part(s)?
- 4. What is incubation period? How long is the incubation period for your pathogen?
- What diseases does it cause? What are the symptoms of infection?
- What is the duration of illness?
- 7. What is virulence? How virulent is your pathogen? How deadly?
- Is there a vaccine for your pathogen? If so, who discovered it, and when? Can the vaccine be taken even after
- 9. What behaviors will help someone to avoid infection by your pathogen?
- 10. If you are infected, what is the treatment, if any?

After you have found all the information, make a trading card of your pathogen with the following information (see Yellow Fever sample card).

- · Name of pathogen
- Picture of pathogen and/or the transmission vector
- Brief description of pathogen (virus or bacteria, type, shape, and so on) and an indication of its power (virulence and fatality rate)
- Offenses
 - Attacks—transmission and description of infection target, if any
 - Outcome—name and brief description of the associated disease resulting from infec-
 - Incubation—time from infection to presentation of symptoms (days, weeks, months,
 - Duration—typical length of infection
- Defenses
 - Vaccine—name and brief description of developed vaccine, if any; list whether the vaccine can be administered both before and after infection, or only before.
 - Behavioral—preventative behaviors to avoid infection
 - Treatment—description of treatment if infected

You can choose a different layout for your own pathogen card, but the card must include all the required information somewhere.

YELLOW FEVER VIRUS

Yellow fever virus is a single-stranded RNA virus endemic to tropical regions of Africa, South and Central America, and the Caribbean. Power: Without vaccination, yellow fever has a fatality rate that can exceed 50%.



Vaccine

OFFENSES

Attacks

Transmitted to humans through the infected saliva of certain types of mosquitoes, the yellow fever virus primarily attacks the liver.

Outcome

Acute phase: fever, muscle, backache, headache, shivers, loss of appetite, and nausea and/or vomiting.

Toxic phase (15% of infected): jaundice, abdominal pain, bleeding, leading to kidney failure.

Incubation Duration

3-6 days 3-14 days

DEFENSES

Yes, yellow fever vaccine, which was developed in 1937 by Max Theiler, provides 10 or more years of immunity. The vaccine provides 95% immunity just 1 week after

vaccination. **Behavioral**

Get vaccinated. Use insect repellents and insecticide, wear protective clothing.

Treatment

No cure. Treatment is symptomatic only: fluid replacement, correction of hypotension, and blood transfusions when necessary.