



Diseases, Prevention, and Treatment Activity Cut apart for classroom activity.	Lyme disease (bacteria carried by ticks)
Malaria (protozoa carried by mosquitoes)	E. coli bacteria that affects the intestine
Giardia (protozoa that lives in water)	Athlete's Foot (a fungus)
Smallpox virus	Prevention: wear long pants and sleeves and use a bug net when in tropical or sub-tropical areas
Rhinovirus (common cold)	Prevention: boil or filter water
Strep Throat (bacteria)	Prevention: vaccine
Streptococcus (bacteria in the mouth)	Prevention: wash your hands and keep your immune system strong by eating healthy and getting plenty of sleep

Prevention: wash your hands regularly and do not share toothbrushes or drinks with someone who is sick	Treatment: no treatment except vaccination	
Prevention: brush your teeth regularly and cut back on sugary and starchy foods	Treatment: drink lots of liquids and get plenty of rest	
Prevention: wear long pants and avoid walking through tall grass	Treatment: antibiotic such as penicillin	
Prevention: make sure to wash all fruits and vegetables and fully cook meats, especially chicken	Treatment: antibiotic such as penicillin	
Prevention: keep your feet clean and dry and change your socks regularly	Treatment: antibiotic such as penicillin	
Treatment: chloroquine or another medicine that inhibits a parasite from using the host's blood cells	Treatment: drink lots of liquids and do not take any antidiarrheal medication to make sure the infection leaves your system as soon as possible	

Treatment: filling or removing a dead tooth
Treatment: antifungal cream

Disease, Prevention, and Treatment – Answer Key

Note: Students will likely mix up some of the treatments between the bacteria and protozoa. Antibiotics such as penicillin will work for most of these though malaria is the exception. As long as the students can articulate good reasons for how they matched up the three parts, the exact answers can vary a bit. The most important thing is to make sure the answers make sense according to what the students know about microorganisms, i.e. an antibiotic cannot help treat a virus.

Disease	Prevention	Treatment
Malaria (protozoa carried by	wear long pants and sleeves	chloroquine or another
mosquitoes)	and use a bug net when in	medicine that inhibits a
	tropical or sub-tropical areas	parasite from using the host's
Cinatin (market and least line in	1 - 11	blood cells
Giardia (protozoa that lives in	boil or filter water	antibiotics
water)		
Smallpox virus	vaccine	no treatment except
		vaccination
Rhinovirus (common cold)	wash your hands and keep	drink lots of liquids and get
	your immune system strong	plenty of rest
	by eating healthy and getting	
	plenty of sleep	
Strep Throat (bacteria)	wash your hands regularly and	antibiotic such as penicillin
	do not share toothbrushes or drinks with someone who is	
	sick	
Streptococcus (bacteria in the	brush your teeth regularly and	filling or removing a dead
mouth)	cut back on sugary and	tooth
	starchy foods	100011
Lyme disease (bacteria carried	wear long pants and avoid	antibiotic such as penicillin
by ticks)	walking through tall grass	•
E. Coli bacteria that affects the	Make sure to wash all fruits	drink lots of liquids and do
intestine	and vegetables and fully cook	not take any antidiarrheal
	meats, especially chicken	medication to make sure the
		infection leaves your system
		as soon as possible
Athlete's Foot (a fungus)	Keep your feet clean and dry	antifungal cream
	and change your socks	
	regularly	