

# Hijacked Teams! Organizer

Pathogens disrupt cells, tissues, and organs. Track down what's happening at each level to cause the pathogen's specific symptoms.

1. Which infection are you modeling? \_\_\_\_\_
2. In column 1, fill in the symptoms for your pathogen infection (from the Symptom Chart below).
3. In column 2, describe what causes that particular symptom (consult the Hijacked Teams! cards)
4. In column 3, indicate the level(s) at which it happens.
5. In column 4, indicate **DIRECT** if the effects come directly from the pathogen or **INDIRECT** if they come from the immune system or some other indirect effect.

Symptom	Cause	Level(s)	Effects
		Cell-level effect Tissue-level effect Organ-level effect	<b>Direct</b> <b>Indirect</b>
		Cell-level effect Tissue-level effect Organ-level effect	<b>Direct</b> <b>Indirect</b>
		Cell-level effect Tissue-level effect Organ-level effect	<b>Direct</b> <b>Indirect</b>
		Cell-level effect Tissue-level effect Organ-level effect	<b>Direct</b> <b>Indirect</b>
		Cell-level effect Tissue-level effect Organ-level effect	<b>Direct</b> <b>Indirect</b>

**Question** Pathogens need hosts to survive. They also need a way to spread to new hosts, from one individual to another. How does your pathogen get out of one host and spread to another?

# Symptom Chart

A – Influenza v. Airway Cell	B – <i>E. coli</i> v. Intestine Cell	C – TSWV v. Leaf Cell
Body aches	Abdominal pain	Dark spots
Coughing	Diarrhea	Leaf drop
Fever	Kidney failure	Plant collapse
Runny nose	Stroke	Slow growth
Sore throat	Vomiting	Wilting