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Engage
Linguige

Parasites and Hosts

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Watch the video found at https://www.youtube.com/watch?v=dEWD-mZSuK
What do you notice?

You just witnessed a very natural interaction between two different organisms. Who benefited from the interaction - the maggot, the woman, or both?

Be ready to share your ideas.

What do you wonder?

Explore

How It Gets Spread

Materials: 3 different colors of paper cut into pieces with enough for each member of the class. Pink, blue, and green.

Information:

Your teacher is playing the part of a swam of mosquitos in South America. You are playing the part of humans that encounter this swarm and are bitten by the mosquitos. The color you choose will determine what will happen to you from the bite.

What To Do:

1. Your teacher will allow	you to pick	one piece	of paper.
2. Record the color here.			

Some mosquitos in this swarm are infected with an organism that they inject into you when they bite you. Some mosquitos are not infected.

If you picked a pink paper, you did not get infected. If you picked a blue paper, you got infected with the organism that causes malaria but were able to get treatment and lived. If you picked a green paper, you got infected with the disease malaria, did not get treatment, and were sick off and on for many years.

3. Describe what happened to you according to what color of paper you choose in the space below.

The organism that causes malaria is spread by mosquitos. These mosquitos are found in Africa and South America. It stays in your liver and blood until you get treatment. It causes fevers, headaches, and chills.

After several weeks the organism can be spread from you to other mosquitos that bite you. It never goes away unless you get treatment.

Explain	PARSITE
ND HOSTS	HOST
PARASITES AND HOSTS	SYMPTOMS
P,	TRANSMISSION

Elaborate

Where Did They Get It?

What To Do:

- 1. Read the Parasite Mysteries and determine which of the Clue Cards goes with each mystery.
- 2. Cut them out and glue them in the question boxes below each mystery.
- 3. Use the parasite I.D. cards to determine which of the parasites is described in the mystery and glue it in by folding it on the middle line and gluing just the bottom side.
- 1. Ryan and Daniel went on a camping trip with their family. They discovered while eating lunch they have forgotten to bring something to drink. They decided to drink the water out of the trout stream. Several weeks later Daniel began complaining of severe stomachaches and diarrhea. They went to the doctor and were told they both had parasites in their poop.

Who got sick? (Who is

the host?)

What symptoms did the host have?

Where did the story take place?

How did the person get the parasite and become sick?

Parasite: Card

2. Kelly's parents took her to San Francisco for her birthday. After a full day of shopping, they went to a sushi restaurant. All of her family ordered cooked fish, but Kelly decided to try the sushi. The next evening Kelly got a terrible stomachache and started vomiting. The doctor diagnosed Kelly with a parasite infection.

Who got sick? (Who is

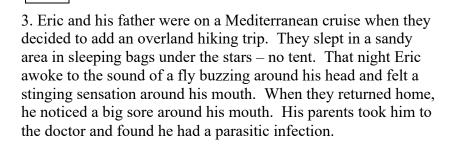
the host?)

What symptoms did the host have?

Where did the story take place?

How did the person get the parasite and become sick?

Parasite: Card



Who got sick? (Who is the host?)

What symptoms did the host have?

Where did the story take place? How did the person get the parasite and become sick?

Parasite Card

4. Sara and her family traveled to Egypt during summer vacation. They took a boat trip down the Nile River. One night they slept out on the deck of the boat. When they woke up, they found they had many insect bites. Sara became ill with fever and chills. Then they went away. A few days later Sara became ill again.

Who got sick? (Who is the host?)

What symptoms did the host have? Where did the story take place? How did the person get the parasite and become sick?

Parasite Card

Clue Cards

Recur	n ptoms ring fever d chills	Symptoms Red swelling rash, joint pain, headache, fever	Symptoms Severe stomach ache, vomiting	Symptoms Open sore on skin	Symptoms Diarrhea and severe stomach ache
Lo	cation	Location	Location	Location	Location
	heastern ed States	The Mediterranean Sea	Sushi restaurant, San Francisco, California	The Nile River, Egypt	The Black Hills of South Dakota
出					Z 1 X 2
1	Host	Host	Host	Host	Host
	Kelly	Becky	Daniel and Ryan	Sara	Eric
	How	How host	How host	How host	How host
1	host became	became sick	became sick Tick bite	became sick Drinking	became sick Mosquito /
	sick	Eating raw fish	Sec.	untreated water	bite
***	Sandfly bite	- No - 2000			- State

Parasite I.D. Cards



Parasite
Sandfly

A small bloodsucking fly that transmits Leishmania



Parasite Liver Fluke

Usually infects sheep, cattle, and rabbits



Parasite
Anopheles

mosquito Transmits Malaria



Parasite

Black-legged tick

Transmits Lyme Disease



Parasite
Anisakis
(an-eh-sa-kiss)

Called the whale or sushi worm



Parasite Giardia

(gee-r-dea)

A tiny protozoa that lives in streams

Parasites and Hosts

D T T X R S R S X W O K T L O V I R J L K C M A L A R I A M G V A A W G W X J F I A J M A M I O R N A P F F O E D V S G F O E M R S B A K O S M R U G Z Y S A I H M N R D R Q N K O T K S Q U T E I K A H O L U T U Z U Y U X I A S R S O Y Q Q U G S J M I B N L S G I S G B V L H D U P T I G H I G T T D Z J I B K N T O U W I O N E F W L B F P P I O N S B M N X N G O G F C T S H M P L S U P I H V D E F P D M A S P X L X I B O T F L Y U J S K O V O Y U

Transmission	Parasite		
		Mosquito	Host
Symptoms	diarrhea	vomiting	food
Bot Fly	Malaria	•	
maggot		sushi	

Evaluate		
Name	neriod	

EXIT TICKET Parasites and Hosts			
1. In the relationship called parasitism which of the organisms benefits?			
A. Parasite	B. Host		
2. In the relationship called parasitism which of the organisms is harmed?			
A. Parasite	B. Host		
3. How do most parasites use the host?			
A. As a playgroundB. Has a source for foodD. As a landing spot			

- 4. What are the signs of an illness called?
 - A. transmission
- B. symptoms
- 5. What is the process where a parasite moves from one host to another called?
 - A. symptoms
- B. transmission