



High School Science Virtual Learning

**Applied Biological Science**

**Parasites & Life Cycles**

April 17, 2020



# High School Applied Biological Science

## Lesson: April 17, 2020

### **Objective/Learning Target:**

Define and explain the importance of a life cycle of a parasite.



## Let's Get Started:

1. Watch this video on parasites and [life cycles](#).
2. Why are life cycles useful for studying parasites?



## Let's Get Started: **Answer**

1. Watch this video on parasites and life cycles.
2. Why are life cycles useful for studying parasites?
  - a. They inform how the parasite can spread in a community and environment and help with preventing new infections



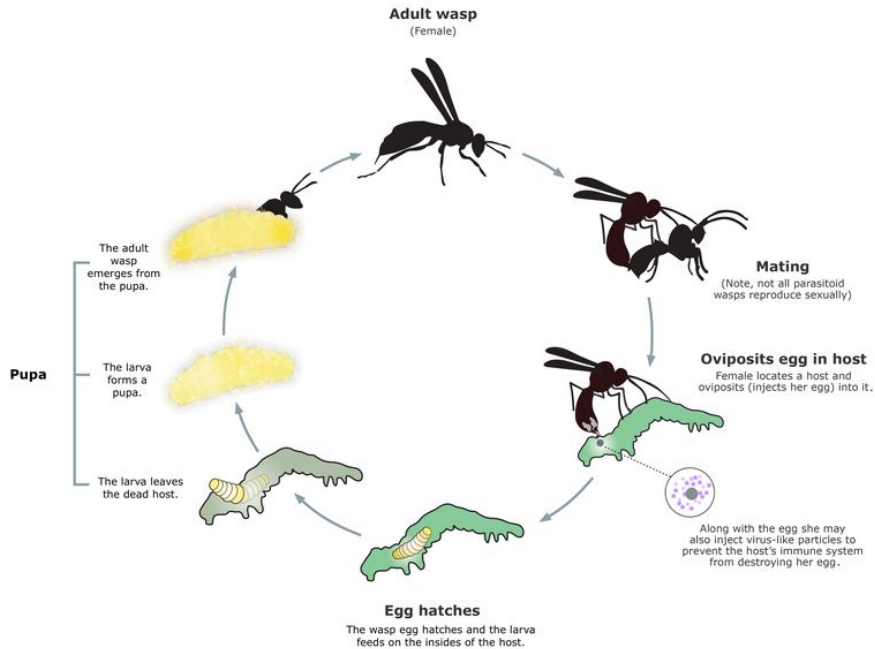
## Lesson Activity:

Click on the link to [this radiolab](#) episode on parasites. Then answer the following questions for each of the 5 parasites discussed (Parasitic wasp, parasitic nematode, blood fluke, human hookworm, *Toxoplasma gondii*)

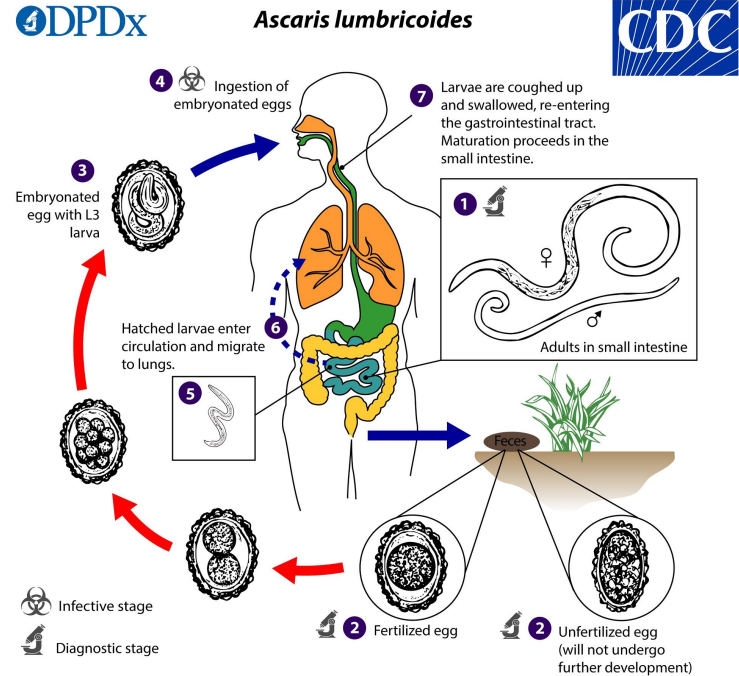
- Describe the life cycle.
- What is something interesting you learned?

# Lesson Activity: Answer

## Parasitic wasp



## parasitic nematode

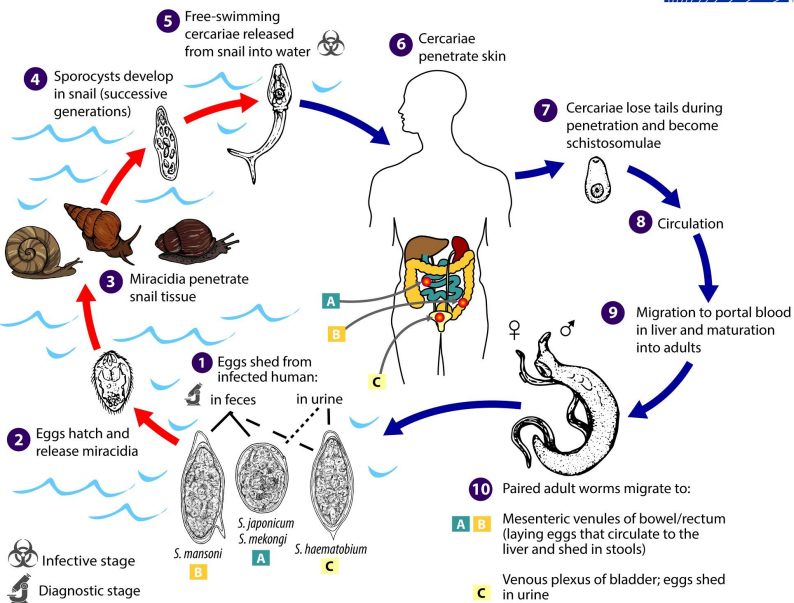


# Lesson Activity: Answer

## blood fluke,

1DPDx

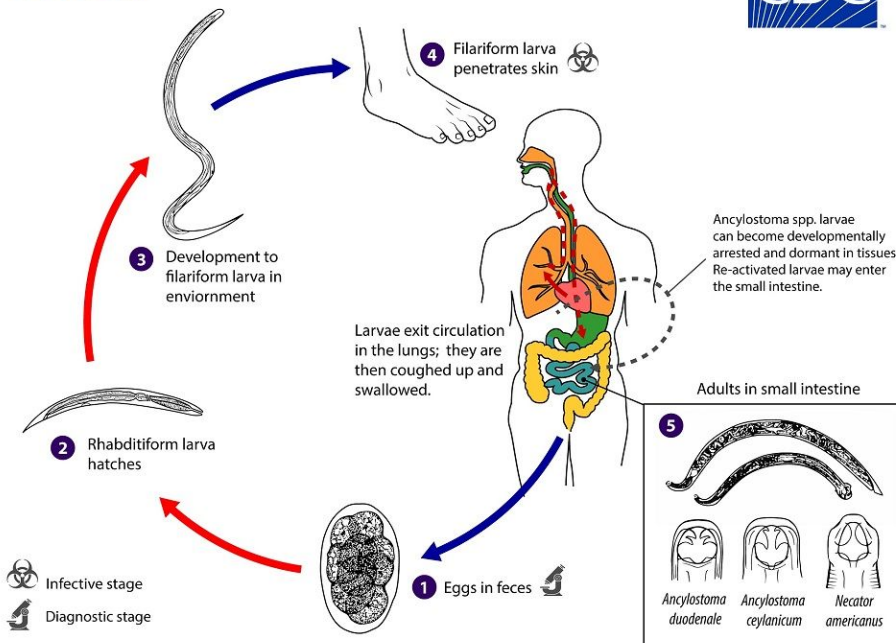
*Schistosoma* spp.



## human hookworm,

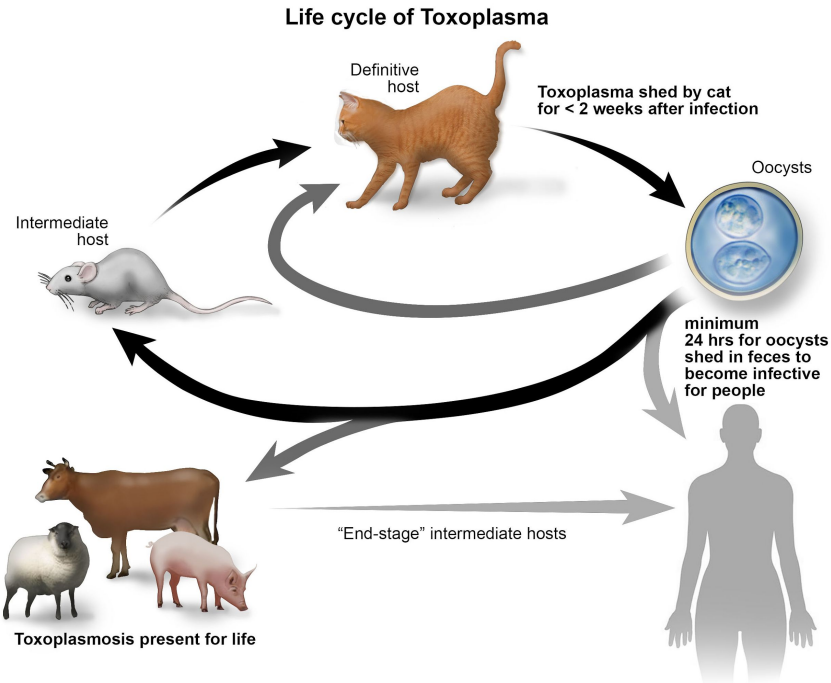
1DPDx

Intestinal Hookworm



# Lesson Activity: Answer

## *Toxoplasma gondii*





# Practice Questions

Identify which parasite the following characteristics belong to.

1. You would expect this parasite to be more common in a household with cats.
2. Lays eggs in insects and then bursts out of insect when mature
3. Primary means of human infection is burrowing through skin in foot
4. Uses a snail to allow for parasites to mature
5. Your risk for this parasite significantly increases if you don't wash your hands



# Practice Questions - **Answers**

Identify which parasite the following characteristics belong to.

1. Toxoplasma gondii
2. Parasitic wasp
3. Human hookworm
4. Blood fluke
5. Parasitic nematode



# Additional Practice Questions

- Check your understanding by explaining how to limit the transmission of each of the following parasites using the [CDC website](#) and what you learned in the previous activity:
  - Toxoplasma gondii
  - Blood flukes
  - Human hookworms
  - Parasitic nematode



## Additional Practice

- View this [video](#) on how these parasites and others can affect the brain and cause behavioral change.
- Choose an additional parasite from [this website](#) to research and describe its life cycle in a paragraph.