

# UNIT 8.1

## Lesson 1

# NORTH BULLIT HIGH SCHOOL BATTLES BED BUGS

Read the article. Set up your paper and copy the questions (black font) and answer them.

	Bed Bug Information	Name 10-8-19 Hour Assign. #17
	<b><u>Article Questions</u></b>	
1.	Were Karson and Brandon “right” to check out of school early because of the bed bugs? (paragraph 1)	
2.	What is the difference between a bed bug “sighting” and a bed bug “infestation”? (paragraph 5)	

CREATE THIS HEADING NEXT ON YOUR PAPER TO TAKE NOTES  
ABOUT INFORMATION YOU LEARN DURING THE VIDEO...

	<b><u>Video 1: A Bed Bug's Bite - Up Close!</u></b>	
	<ul style="list-style-type: none"><li>• Use bullet points like these to separate facts you write down.</li></ul>	
	<ul style="list-style-type: none"><li>• Aim for 2-5 facts from this video.</li></ul>	



CREATE THIS HEADING NEXT ON YOUR PAPER TO TAKE NOTES  
ABOUT INFORMATION YOU LEARN DURING THE VIDEO...

	<b><u>Video 2: Insecticide Resistant Bed Bugs</u></b>	
	<u>Insecticide:</u> A chemical spray that kills insects such as bed bugs.	
	<ul style="list-style-type: none"><li>• Use bullet points like these to separate facts you write down.</li></ul>	
	<ul style="list-style-type: none"><li>• Aim for 2-5 facts from this video.</li></ul>	



CREATE THIS HEADING NEXT ON YOUR PAPER TO TAKE NOTES  
ABOUT INFORMATION YOU LEARN DURING THE SLIDES...

	<b><u>Slides: How Much Insecticide Does it Take to Kill Bed Bugs?</u></b>	

Scientists tested two bed bug populations: one from the 1960s and one from today

1960's Bed Bugs



Today's Bed Bugs

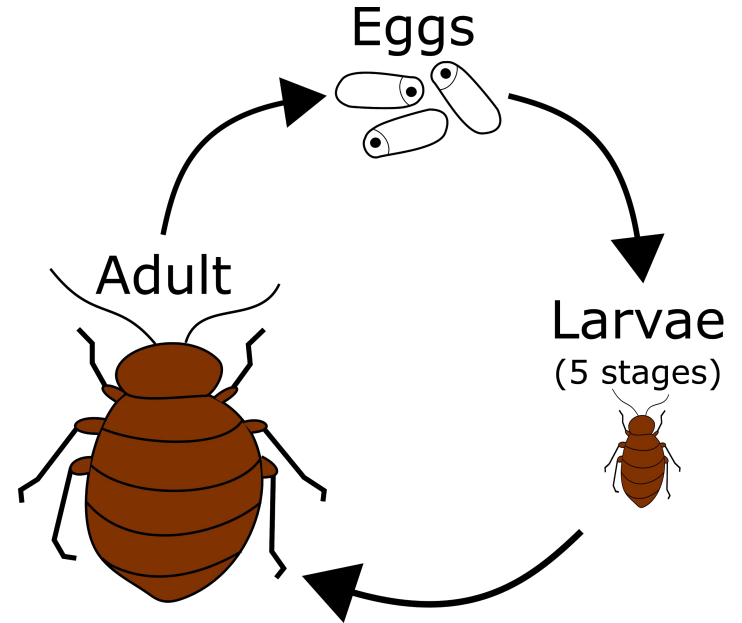




	<u>Slides: How Much Insecticide Does it Take to Kill Bed Bugs?</u>	
	<u>Bed Bug Life Cycle</u>	
	Copy the next slide under this heading.	

# Bed Bug Life Cycle

- Females can lay 200-250 eggs in a lifetime.
- Eggs hatch in 6-10 days.
- Adults can live 2-4 months.
- Populations produce 3-4 generations every year.



	<u>Insecticide Experiment</u>	
	Use the following slides to summarize the experiment.	
1.	Experiments usually have numbered steps...	
2.	Just...	
3.	Like...	
4.	This...	

Use the following slides to summarize the experiment.

1. Experiments usually have numbered steps...

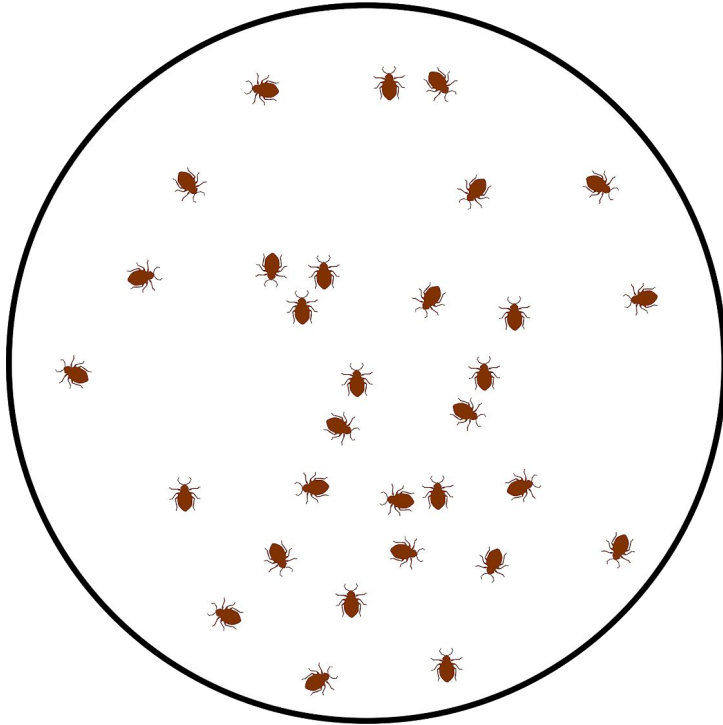
2. Just...

3. Like...

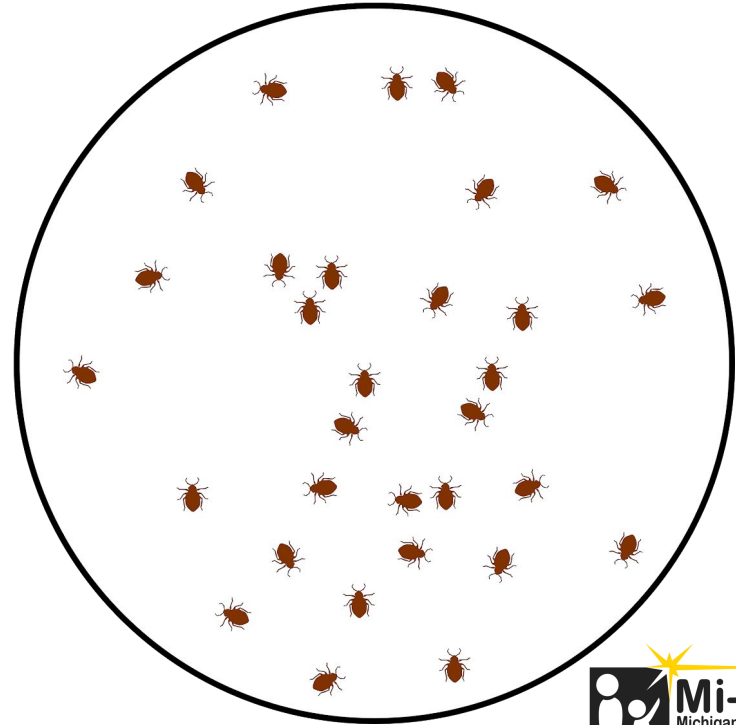
4. This...

The scientists added bed bugs from both populations to petri dishes containing 0.2g of “Invade” insecticide

1960's Bed Bugs

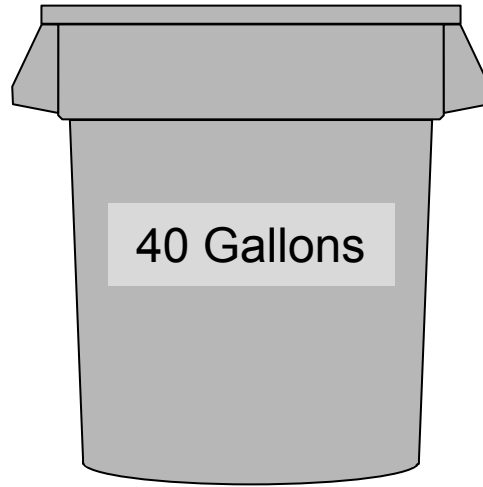


Today's Bed Bugs



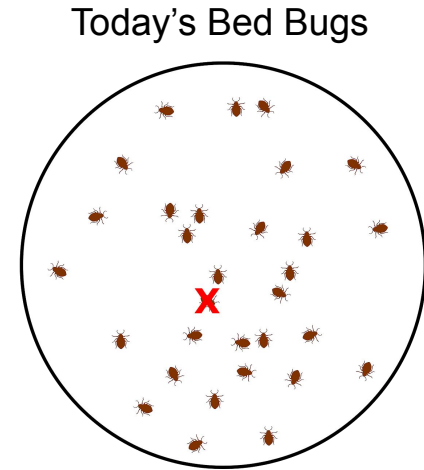
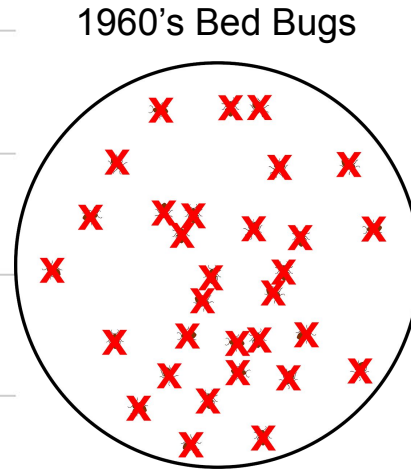
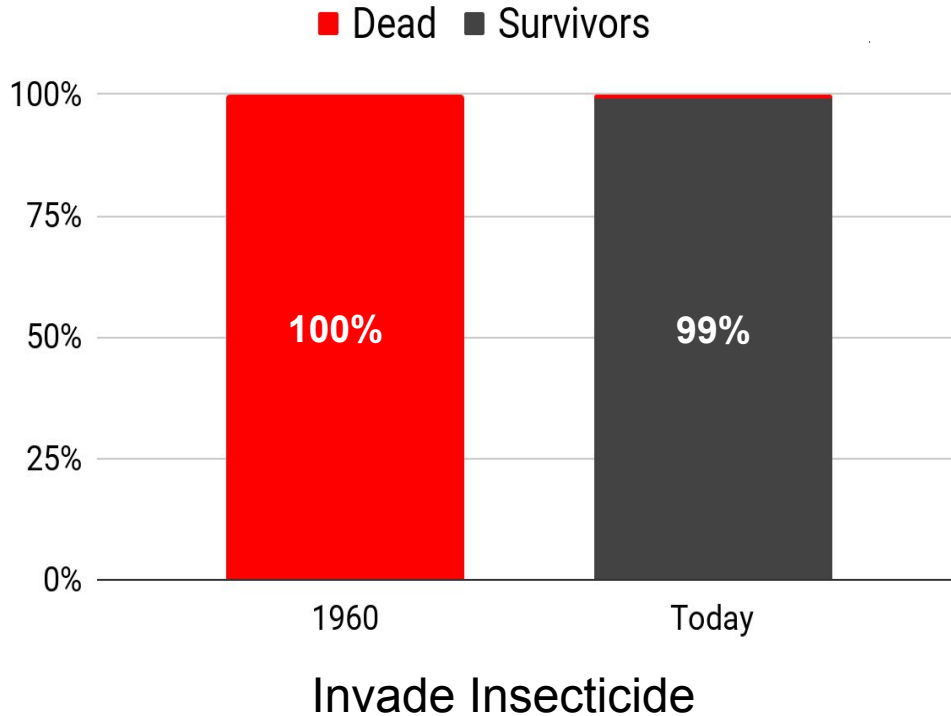
That's a lot of insecticide!

An equivalent amount of insecticide in your classroom is about 150,000 grams of Insecticide.



150,000 grams = 150 kilograms, which is about the weight of a 40 gallon garbage can full of water

# The next day, the scientists counted the dead bed bugs in each petri dish:



# COPY AND ANSWER THE QUESTIONS ABOUT THE EXPERIMENT...

	Why can today's "modern" bed bugs survive exposure to such high	
	amounts of <u>Invade</u> Insecticide?	
	Answer the question using a complete sentence.	
	Evidence: What do you already know that supports your answer?	
	List your evidence. Be specific.	
	What other evidence you need to know you are correct?	
	Be as specific as you can!	

# Announcement: Whiz Bang Insecticide Kills Bed Bugs Dead!

