

Name: _____ Period: _____ Date: _____

Lesson 8b: What is happening with our antibiotic experiments?

Warm-up: Record what you notice about your experiments in the space below.

1. Sketch your Petri dish and one other group's dish.

My Petri dish	Another group's Petri dish

2. Where do you see bacterial growth on the plate? Where aren't bacteria growing?

3. What else do you notice looking at the plates?



Sharing Initial Ideas:

4. How specifically could we test whether the bacteria near to and away from the ring are different?
5. Do you expect any differences between the two plates when we look at them again? How might they turn out differently, if at all? Explain your answer.

Setting up the investigation:

Plate your bacteria much as in 8a, except your bacteria will come from your Petri dishes.

Label and then prepare two plates. For the first, swab around the edge of the zone of inhibition. Mix this with 50 mL of water and plate.

For the second plate, take a similar amount of bacteria from an area of the plate farther away from the zone of inhibition and mix with 50 mL of water.

Making Sense: Discuss the following with your class.

- What did we identify as a likely reason for why no bacteria were growing in the zone of inhibition?
- Why did we decide to re-plate bacteria from the edge of the zone of inhibition and also farther away from the zone of inhibition?

