

Name:

Date:

DO NOW

A group of cattle farmers in upstate New York report that a large amount of their cows are dying. Farmers notice that cows seem to die quickly, often without any warning.

You are a scientist tasked with determining the cause of the problem so that it can be stopped.

1. Write (at least) TWO questions you would ask.

2. Write (at least) ONE action you might take at the start of this investigation.

ESTABLISH CORRELATION

1. What is ONE reason *B. anthracis* might be the cause of the disease?

2. What is ONE reason *B. anthracis* might **not** be the cause of the disease?

3. What additional information do you need?



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ESTABLISH CAUSATION

Plan an experiment in the space below.

What would the next step be to show *B. anthracis* causes the disease? What might be a suitable control?

KOCH'S POSTULATES

- 1.
- 2.
- 3.
- 4.

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EXIT TICKET
(HAND IN AT THE END OF CLASS)

1. In Koch's time, people thought the lung disease tuberculosis was caused by people breathing "bad air." Koch thought it might be caused by a bacterium. Use Koch's postulates to devise a procedure to determine this.

2. What is a potential problem with using Koch's postulates?

