Visualization

the 2 become 4, the 4 become 8, then 16 and so on. Draw a picture that illustrates Suppose we had bacteria that doubled every minute. One bacterium becomes 2, how these bacteria would double each minute.

Limitation

allow the colony to continue its exponential growth? (Hint: By 6:30 the volume of the colony would exceed Is their any hope that more jars will

A Cautionary Tale

Magic Bacteria

Name:

How to fold this book:

When is it half-full?

that the jar is full at 2:00, at what time was the jar half full? Explain how you an empty jar at 1:00 and then observe If we put one of these bacteria into

know.

Bonus Essay Question: Is there a lesson for people in this story about bacteria?

Cautionary Tale on Science Mom's YouTube channel. Then answer the

questions and cut and fold the book.

2

Watch the video Magic Bacteria: A

 \mathbf{c}

9

ယ

the volume of the universe)

Recognition

realize you were running of space? Why? that jar, at what time would you first If you were an average bacterium in

jars, then at what time will the bacteria ria are evenly distributed between the If 3 extra jars are found and the bacterun out of space? Explain.

Alternatives