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Use this handout to document your thinking as you complete the extension activities.

Extension Activity #1:

What will happen when we cut along the line? Make a prediction.

What happened? Describe the result.

How does this compare to your prediction?

Is the result a Mobius band? How can you tell?

Extension Activity #2:

What will happen when we cut one third from the edge all the way around (instead of down the center)? Make a prediction.

What happened? Describe the result.

How does this compare to your prediction?

Are both of these Mobius bands? How can you tell?

What do you think would happen if we cut one quarter from the edge? How about one fifth?

How much longer do you think the bigger loop is when compared to the smaller one? Make a prediction.

What did you find?

Extension Activity #3:

What will happen when we cut down the center of each loop all the way around? Make a prediction.

What happened? Describe the result.

How does this compare to your prediction?