**Tropisms Video Discovery**

Answer the following questions as you watch the videos with the class. After the videos move on to the research questions to learn more about each of the tropisms.

**1) Watch this video on Thigmotropism, then answer the questions below.**
<https://www.youtube.com/watch?v=bczox-dDKP0>

1. What Stimuli was the plant reacting to?
2. What was the plant’s response to the stimuli?

**2) Watch this video on hydrotropism starting at 1:05** <https://www.youtube.com/watch?v=inuPFr7doIU>

A. What were the roots growing towards?

B. Why doesn’t the rest of the plant grow downwards?

**3) Watch this video of phototropism and answer the questions below.**
<https://www.youtube.com/watch?v=G4Mo9-JAeok>

A. Why were some of the plants falling over towards the end of the video?

B. List two observations about the plants in the video.

C. Write and explain two inferences about the plants that you can make from watching the video.

4**. Watch this video of Geotropism and answer the questions below.** <https://www.youtube.com/watch?v=mYZXax8V_L0>

 A. What direction were the roots initially growing? Why did they change direction?

 B. Make a prediction as to what would happen to the direction of the roots if you rotated the container by 90° to

the right.

**Research Questions**

1. What other stimuli will a mimosa plant respond to?
2. What is a different plant that responds to touch? Find a youtube video on it , watch it, explain its thigmotropism, and copy the link below.
3. Will the roots of plants in dry desert soil grow the same?
4. What else does a plant absorb through its roots?
5. What is another tropism that causes roots to grow into the earth? Find a video on this type of tropism and copy the link here.

1. What hormone in plants is responsible for phototropism?

1. What part of a plant has a negative response to light?

1. Google “flowers opening and closing”. Write two sentences about what you learned from **two different** sources and list the sources.

1. Write a paragraph to summarize what you learned in this web scavenger hunt.