Questions to accompany GigaPan timelapse of Fast Plants

1. Pick out an individual plant and watch it grow. New leaves, stems, and flowers come from meristems- places on the plant where cell division happens. Where are the meristems located on the plant?

2. Leaves have determinate growth; they reach a certain size and then stop growing. Watch the growth of a leaf to observe this happening. Does the stem have determinate growth? Is the number of flowers a plant makes determinate or indeterminate?

3. Observe plant movement in several different plants. Do all plants move in the same ways? How are they different?

4. How might a plant's surroundings affect its movement? Plants do not have a nervous system, or eyes or ears. How can they respond to what goes on around them?

5. Write a testable hypothesis and design an experiment to investigate the causes of plant movement.