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**POW #9: Photosynthesis**

We have learned many reasons why photosynthesis is important to an ecosystem. Many scientists theorize that the extinction of the dinosaurs is due in large part to the reduction in the amount of photosynthesis on the plant following an asteroid collision. **Your task is to summarize the theory** and explain why an asteroid collision could cause a mass extinction of producers and consumers.

**Part 1:** Reorder the following events using the numbers 1-7.

\_\_\_\_\_Asteroid collision in the Yucatan Peninsula

\_\_\_\_\_Most secondary and tertiary consumers died

\_\_\_\_\_Acid rain, tsunamis, wild fires, earthquakes continued for weeks

\_\_\_\_\_Most herbivores died

\_\_\_\_\_Plants were instantly destroyed, burned by fire, or lost to acid rain

\_\_\_\_\_Darkness caused any remaining plants to die of starvation

\_\_\_\_\_The food web collapsed and only a few plants or animals survived

**Part 2:** Summarize your findings in part 1 into paragraph form

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