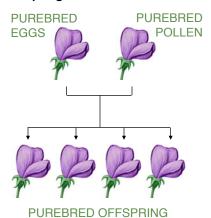
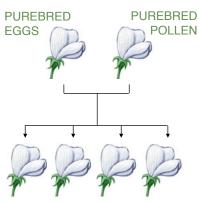
## Mendel's Experiments

To begin with, Mendel carefully chose parent plants that were "purebred" for the **traits** he was focusing on. A purebred plant that self-pollinates (or two plants that are purebred for the same **trait**) will always produce **offspring** with the same **trait**.

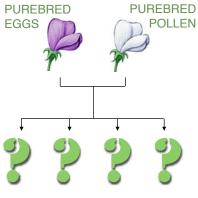
For example, a purebred purple-flowering pea plant that self-pollinates always produces purple-flowering offspring.



And a purebred whiteflowering pea plant that selfpollinates always produces white-flowering **offspring**.



But Mendel decided to see what would happen if he crosspollinated a purebred purpleflowering plant with a purebred white-flowering plant.



PUREBRED OFFSPRING HYBRID (MIXED) OFFSPRING

otag Discuss the following questions with a partner and write down your answers.
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1.	What is the difference between self-pollination and cross-pollination? Explain in your own words how Mendel prevented the self-pollination of his pea plants, and why.
	, <del></del>
2.	What would you guess happened when Mendel used pollen from a purebred purple-flowering pea plant to pollinate a purebred white-flowering pea plant? (Use the theories from the rabbit breeding discussion in the Reader's Theater to explain your guess.)

