



# Investigating Dominant and Recessive Traits

## Follow This Procedure

6–9. Record your observations in the chart.

| Parents |             | Offspring   |               |
|---------|-------------|-------------|---------------|
|         | RR<br>(red) | Rr<br>(red) | rr<br>(white) |
| RR x Rr |             |             |               |
| Total   |             |             |               |
| Rr x Rr |             |             |               |
| Total   |             |             |               |

## Interpret Your Results

- How many red-flowered offspring and how many white-flowered offspring are produced when one parent has two genes for red flowers and one parent is hybrid?

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2. How many red-flowered offspring and how many white-flowered offspring are produced when both parents are hybrid?

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3. What can you infer from your data about inheritance of dominant and recessive traits?

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**Inquire Further**

How would your results be different if you tossed a chip for a hybrid (Rr) and a chip for two recessive genes (rr)? Develop a plan to answer this or other questions you may have.

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**Self-Assessment Checklist**

I followed instructions to **make a model** of inheritance of flower color in plants.

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I made **observations** of the frequency of appearance of flower colors in a model of plant reproduction and inheritance.

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I determined how many red-flowered and white-flowered offspring are produced when one parent has two genes for red flowers and one parent is hybrid.

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I determined how many red-flowered and white-flowered offspring are produced when both parents are hybrid.

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I made **inferences** about dominant and recessive inherited traits.

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**Notes for Home** Your child investigated the frequency of inheritance of genes and traits by making a model.

**Home Activity:** Follow the same procedure to model the frequency of inheritance of your child's eye color, hair color, or height.