*Assessment Rubric for Students’ Reasoning about Inheritance and Variation*

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|  | Models (Step 2) | Graphs (Step 3) |
| 3 | Model includes all plant structures and processes involved in inheritance, including traits. All model elements are accurate and clearly labeled | Graphs are accurate, appropriately labeled, reflect whole-class data, and illustrate trends in variation of traits within the classroom cornfield |
| 2 | Model includes all plant structures and some processes involved in inheritance, including traits. Most model elements are accurate and clearly labeled | Graphs are mostly accurate, partially labeled, reflect most whole-class data, and illustrate most trends in variation of traits within the classroom cornfield |
| 1 | Model includes some plant structures and some processes involved in inheritance, including traits. Some model elements are accurate and clearly labeled | Graphs are partially accurate, partially or inaccurately labeled, partially reflect whole-class data, and illustrate some trends in variation of traits within the classroom cornfield |
| 0 | Model includes few plant structures and processes involved in inheritance, including traits. Few model elements are accurate and clearly labeled | Graphs are inaccurate, not labeled, do not reflect whole-class data, and do not illustrate trends in variation of traits within the classroom cornfield |