Maintaining Our Yield

Plant Chart

Plant 1 G + E = P

____+_____=_____

Plant 2

____+_____=_____

Plant 3

____+_____=_____

Plant 4

____+_____=_____

Plant 5

____+_____=_____

Choose the two plants with the highest P value to cross.

Reflection

1. Are there any plants with the desirable traits (have all 10 alleles)?

2. How does chance play a role in the simulation? In plant breeding?

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F1 generation

Plant 1

G + E = P

1	2	3	4	5

_____ + _____ = _____

Plant 2

1	2	3	4	5

_____ + _____ = _____

Plant 3

1	2	3	4	5

_____ + _____ = _____

Plant 4

1	2	3	4	5

_____ + _____ = _____

Plant 5

1	2	3	4	5

_____ + _____ = _____

Reflection

1. Did you find a plant with the 10 alleles for the favorable traits?

2. If not, what is your next step?

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F2 Generation

Plant 1

G + E = P

1	2	3	4	5

_____ + _____ = _____

Plant 2

1	2	3	4	5

_____ + _____ = _____

Plant 3

1	2	3	4	5

_____ + _____ = _____

Plant 4

1	2	3	4	5

_____ + _____ = _____

Plant 5

1	2	3	4	5

_____ + _____ = _____