

How Does it Grow?

Orange



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on an orange farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

Identify one step of production to mechanize:

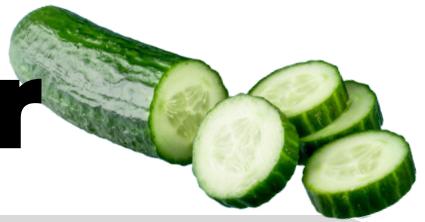
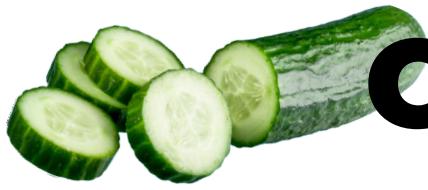
Choose one step in the food production process where you want to reduce manual labor. Describe how humans currently perform this step and explain what tasks a machine or robot would need to replicate to complete it successfully.

Identify constraints and requirements:

Explain what the machine or robot needs to do to successfully harvest crops. Think about whether it must recognize the size, color, and ripeness of the fruit, and if being too rough could damage the plant. Consider if the fruits or vegetables are easy to see or hidden under leaves and branches, and whether they bruise easily when handled. Include any other challenges the robot might face while picking produce.

How Does it Grow?

Cucumber



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a cucumber farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Asparagus

What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on an asparagus farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Cauliflower



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a cauliflower farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Bell Pepper



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a bell pepper farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow? **Avocado**



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on an avocado farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a blueberry farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Peach

What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a peach farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Raspberry



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on a raspberry farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

Apple



What tasks are performed by hand?

What tasks are performed by machine?



Describe the working conditions and tasks of a farm worker on an apple farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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How Does it Grow?

What tasks are performed by hand?

What tasks are performed by machine?

Describe the working conditions and tasks of a farm worker on this farm.
What would a job description look like to hire workers for this farm?

Report to the **Engineer**

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