



Make a Lifecycle of a Chile Pepper Bracelet!

Discover how chile peppers grow!



Materials

- 8 beads in these colors
- 1 brown pipe cleaner
- Brown Pipe Cleaner - Soil
- Tan Bead - Seed
- Blue Bead - Water
- Yellow Bead - Sun
- Clear Bead - Air
- White Bead - Flower
- Red & Green Bead - Chile Pepper
- Black Bead - Pests & Disease

Learn more by
visiting our website
www.nmaitc.org/welcome



What is needed to complete the
lifecycle of a chile pepper?

Soil



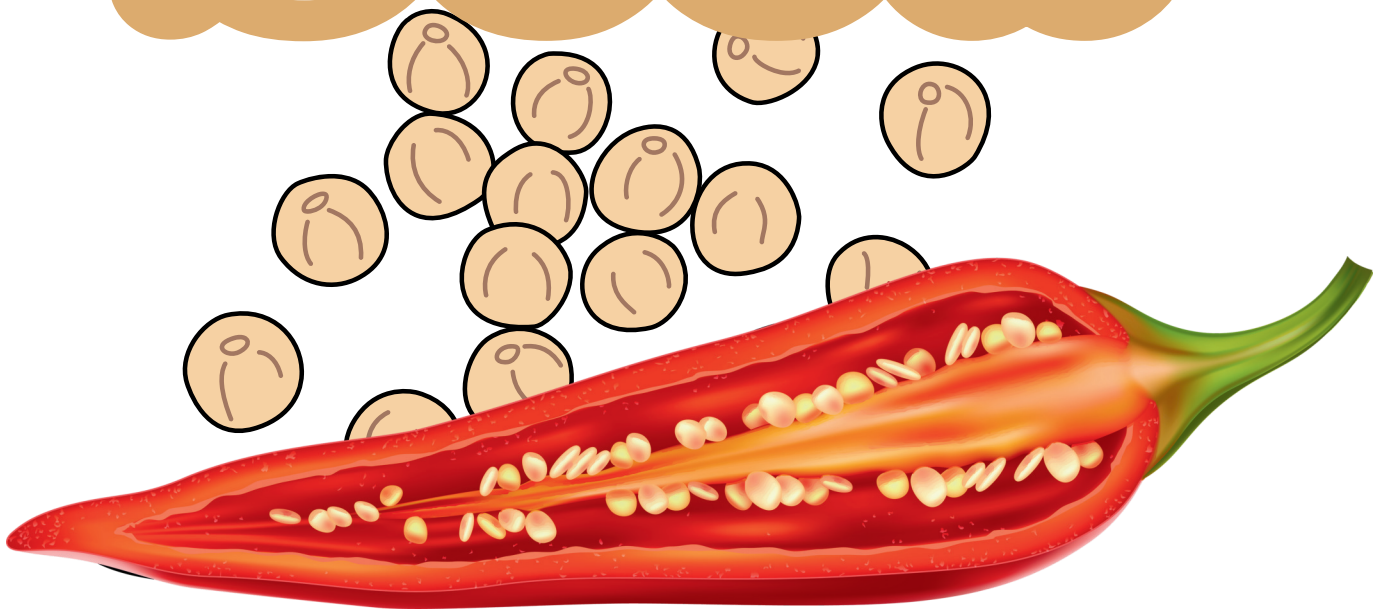
Soil is crucial for chile pepper plants because it provides the necessary nutrients, water, and structural support for healthy growth and fruit production. Ideal soil for chile peppers is well-drained, slightly acidic, and rich in organic matter.

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What is needed to complete the lifecycle of a chile pepper?

Seed



The seed is the life source for the entire plant!

Seed Parts:

- Seed coat= outer layer for protection
- Embryo= new plant
- Endosperm & Cotyledons= food storage

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What is needed to complete the lifecycle of a chile pepper?



For most plants, water is taken in by the roots in the soil and sent throughout the plant. Farmers are very careful with their water use, especially in New Mexico.

Chile peppers are over 85% water!

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What is needed to complete the
lifecycle of a chile pepper?



Photosynthesis is where the sun
provides energy for the plant that is
abosorbed by the leaves.

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What is needed to complete the lifecycle of a chile pepper?



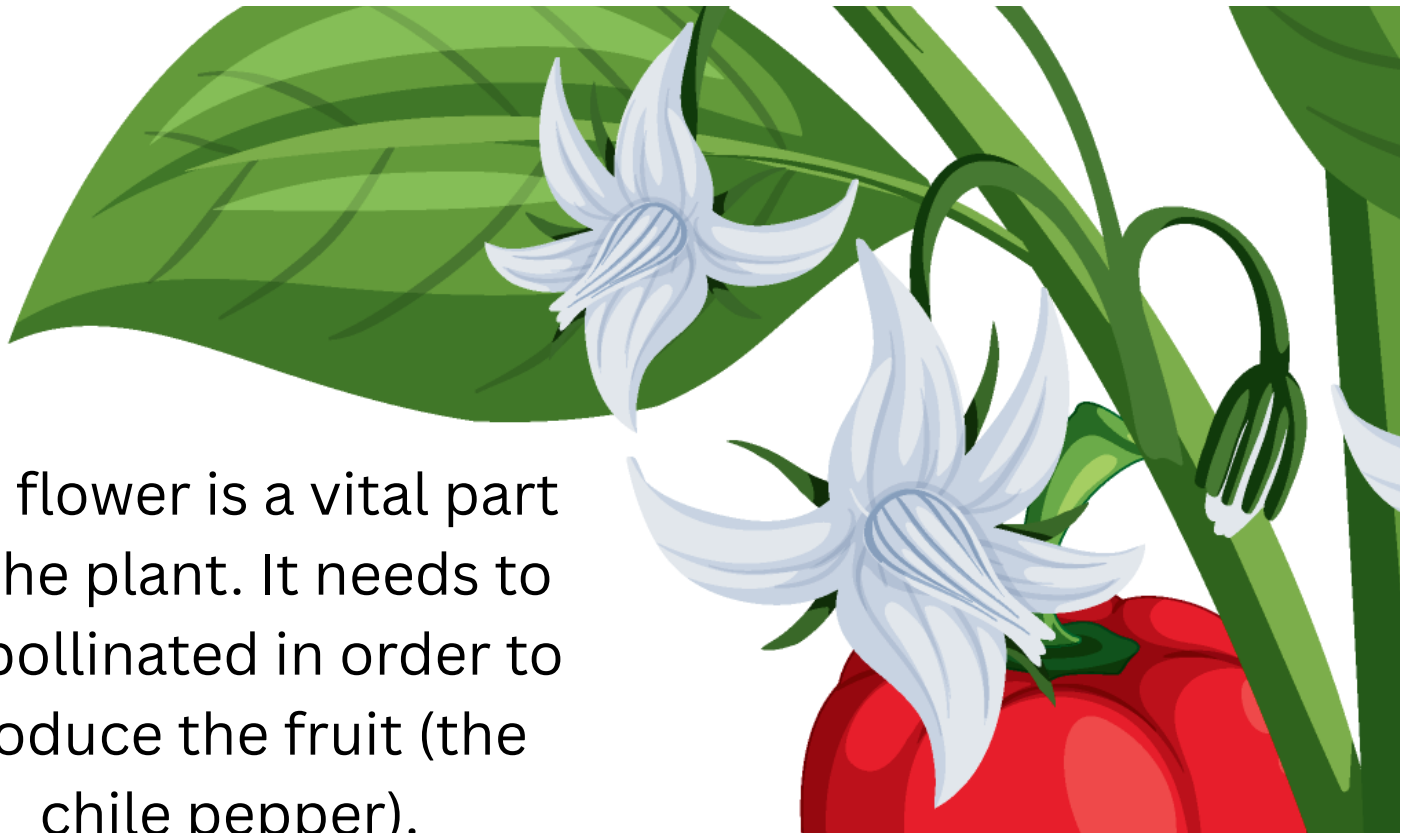
- Plants take in carbon dioxide & expel **oxygen**.
(photosynthesis = make food)
- Plants take in oxygen & release **carbon dioxide**.
(respiration = release energy)
- Need air circulation to regulate temperature
- Roots need air in the soil

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What is needed to complete the
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Flower



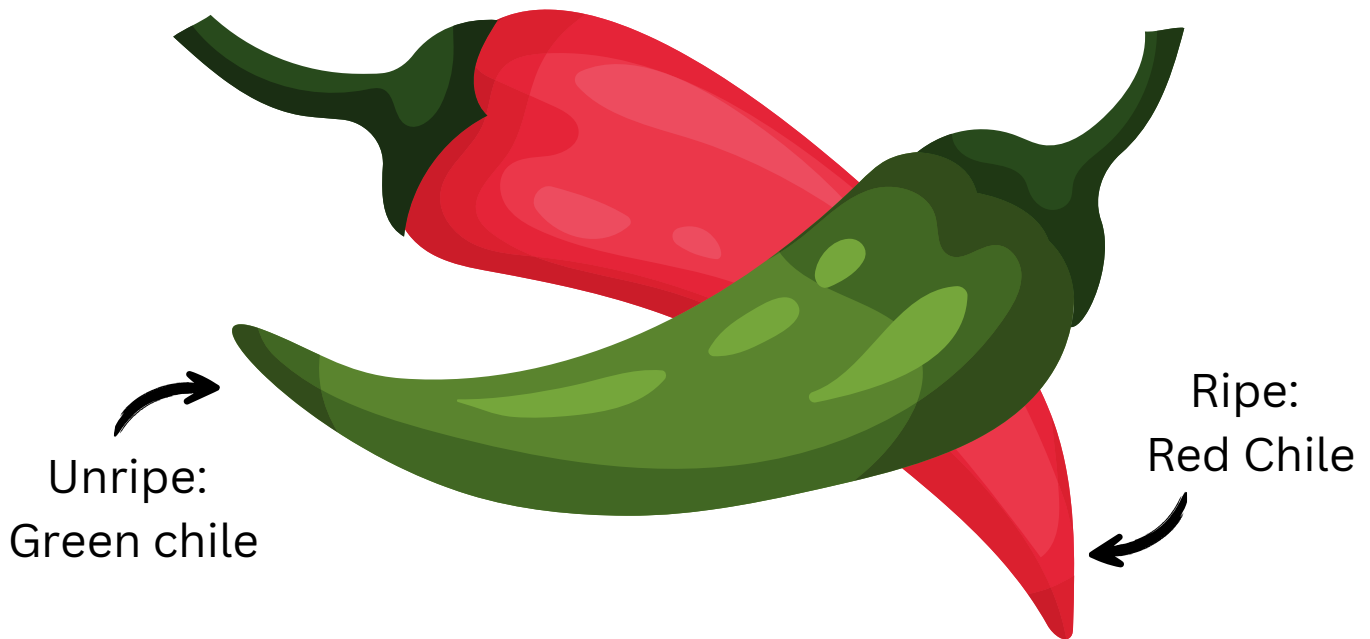
The flower is a vital part
of the plant. It needs to
be pollinated in order to
produce the fruit (the
chile pepper).

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What is the final product in the lifecycle of a chile pepper?

Chile

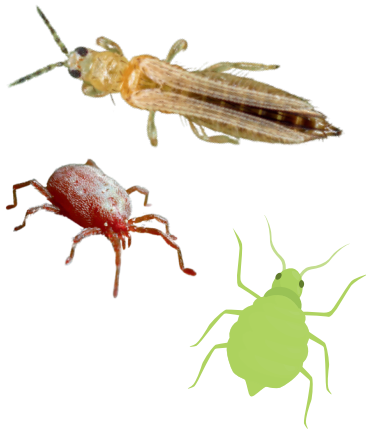


The fruit part of the plant, or chile pepper, begins its' growing season in shades of green and changes color as it ripens to red.



What can negatively affect the
lifecycle of a chile pepper?

Pests & Disease



Pests can include aphids, spider mites, thrips, and whiteflies.
Chile pepper blight, a significant disease for chile pepper growers in
New Mexico, is caused by the pathogen *Phytophthora Capsici*.

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Soil is crucial for chile pepper plants because it provides the necessary nutrients, water, and structural support for healthy growth and fruit production. Ideal soil for chile peppers is well-drained, slightly acidic, and rich in organic matter.

Water



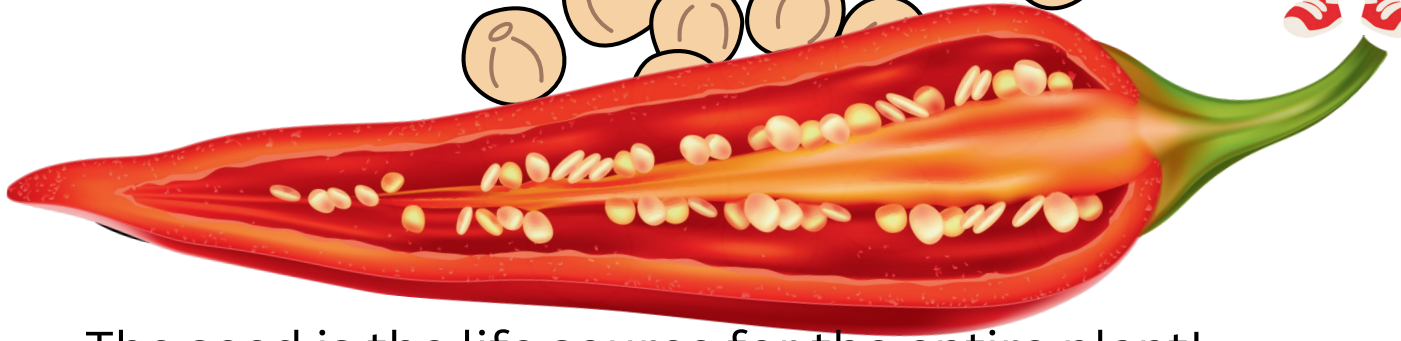
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Sun

Photosynthesis is where
the sun provides energy
for the plant that is
absorbed by the leaves.

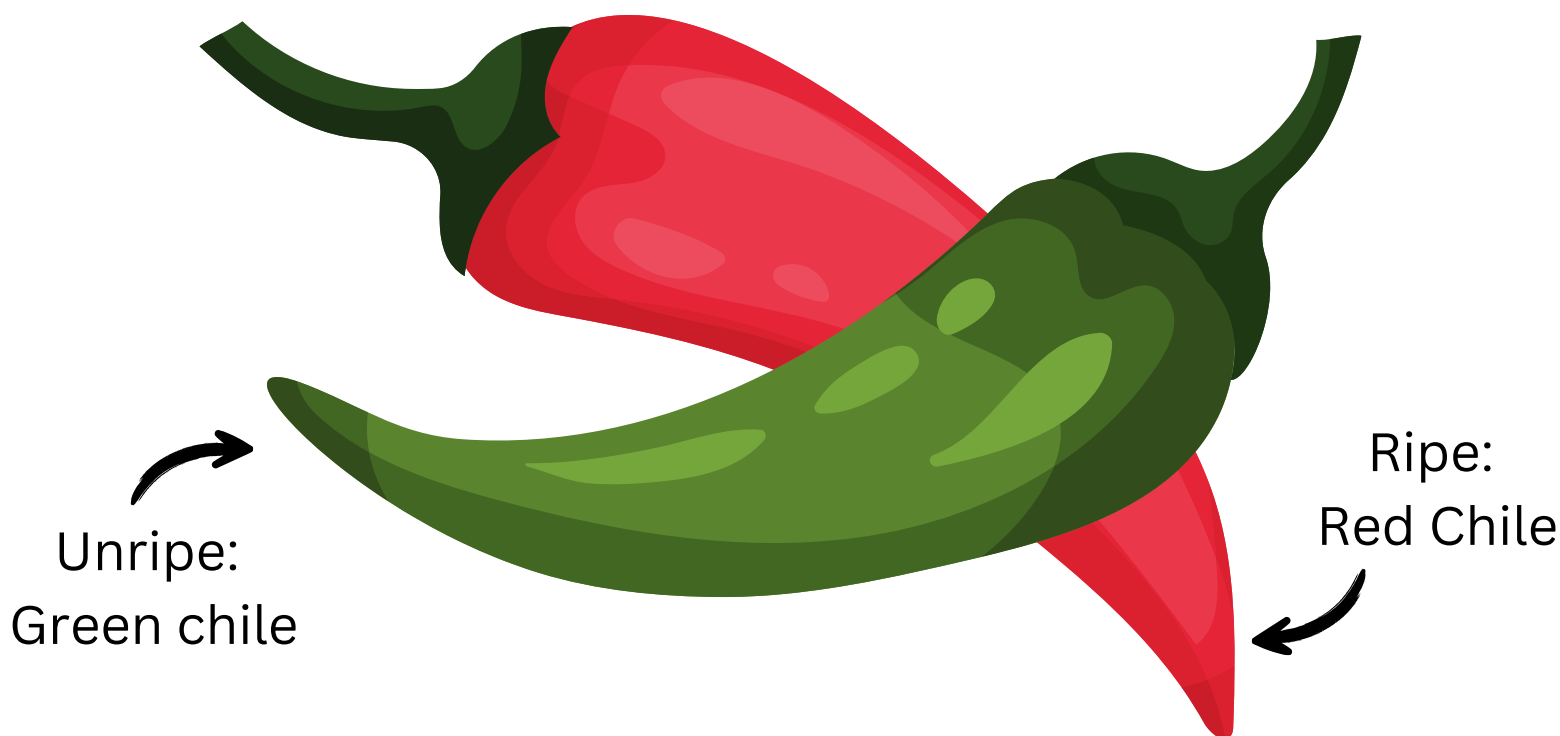


- Plants take in carbon dioxide & expel oxygen (photosynthesis=make food)
- Take in oxygen & release carbon dioxide (respiration = release energy).
- Air circulation to regulate temperature
- Roots need air in the soil

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complete the
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Chile

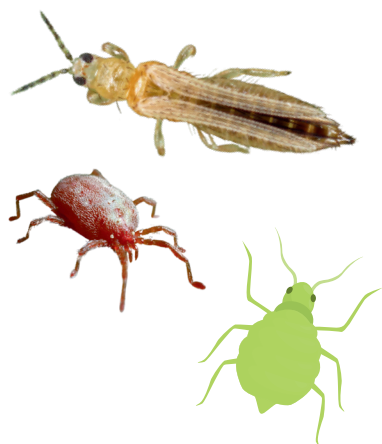


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