

Thank you to our sponsors!



Your local
Conservation
District

Kernel Journal



How to replant your wheat!

- Dig a small hole in a sunny area or a pot.
- Remove the wheat by gently pulling the stems up. The roots and soil should come out of the cup with the wheat.
- Place the wheat into the hole.
- Fill any gaps around the roots with more soil.
- Give your wheat plants a little bit of water when the soil around it feels/looks dry.
- When your wheat has grown tall and dried to a golden yellow (no visible green), harvest your wheat!

Name: Teacher Journal

Terrarium Observations

Date

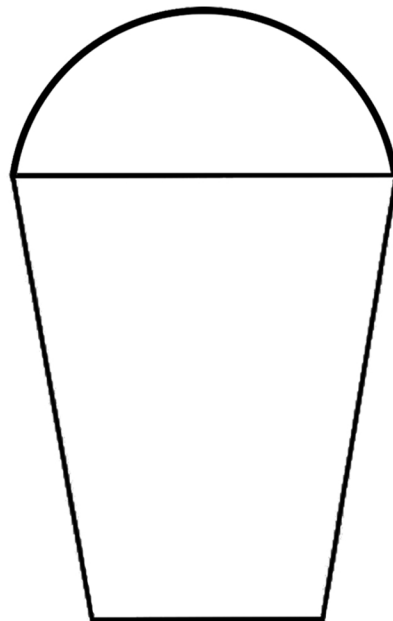
Written Observations

	I planted _____ kernels of wheat. I added _____ sprays of water.

Terrarium Analysis

Illustrated Observations

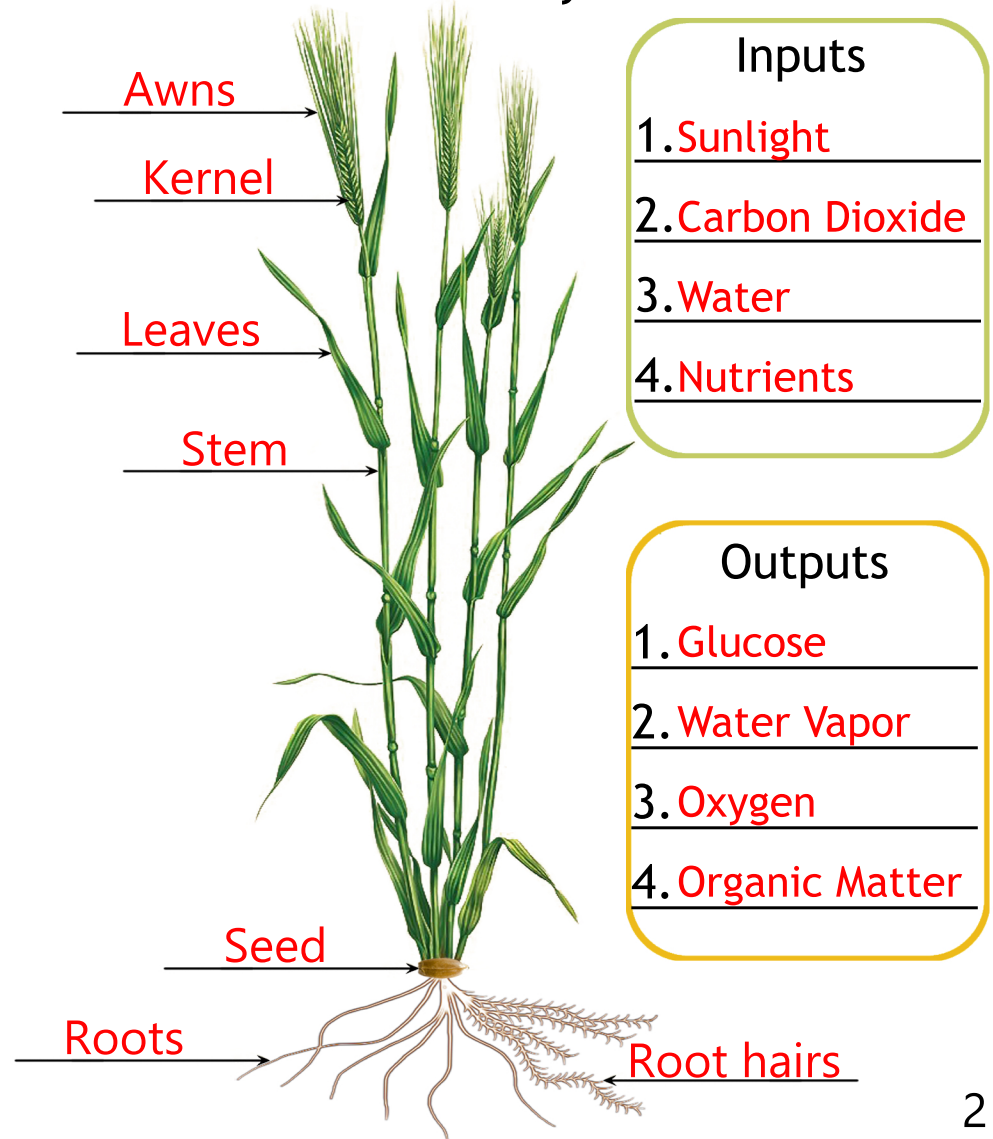
Date	Growth (cm)



What is Wheat?

System: a combination of parts forming a whole.

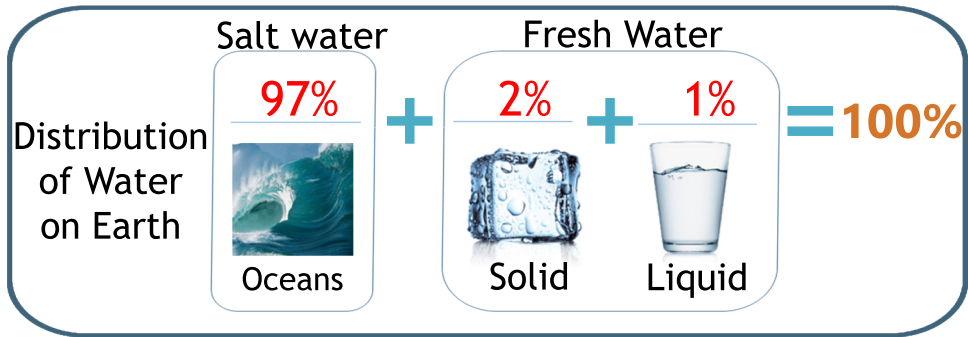
Wheat Plant System





Water in our World

Conservation: **to save or use wisely.**



My Water Journey

to	
to	
to	
to	
to	



Amazing Soils

Erosion: **the movement of soil by water and wind.**

Soil Observations

Soil:	1	2	3
Describe the soil sample: <i>For example: color, texture (how it feels), size, shape, sound, smell</i>			
Prediction: (circle one)	Sand Silt Clay	Sand Silt Clay	Sand Silt Clay

Results:	Clay	Sand	Silt
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I predict water will percolate through (Circle one) 1, 2, 3 the fastest because:



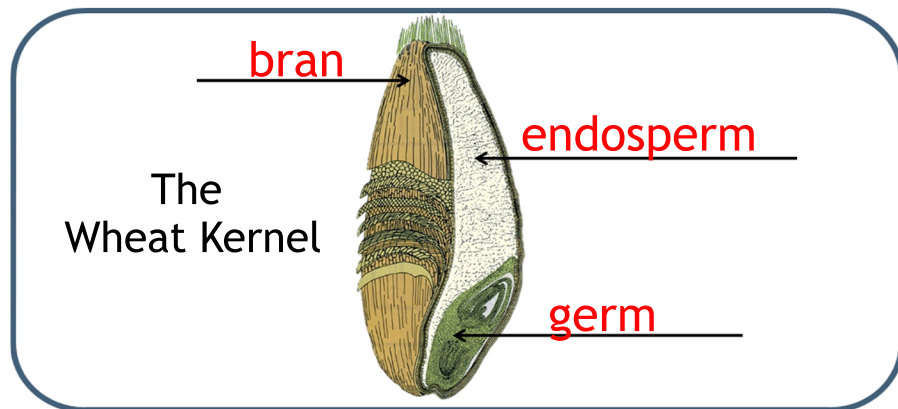
How can you conserve and protect natural resources?





Wheat DNA

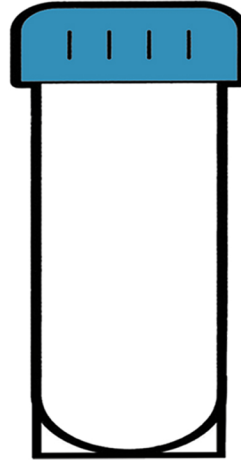
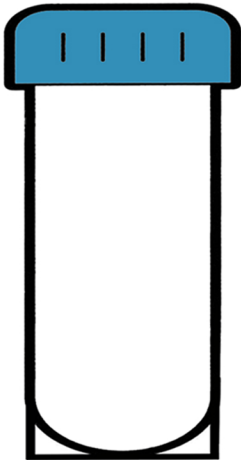
Trait: a distinguishing characteristic



Wheat DNA Extraction

Prediction

Results



What process did Norman Borlaug use to change the traits of the wheat plant?

Plant breeding

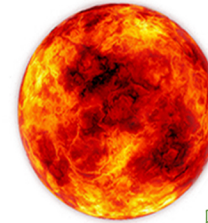
How can you make a positive change in your community?



Wheat Energy

Energy: the ability to do work.

Energy Transfer in Living Organisms



PHOTOSYNTHESIS

Light Energy

Chemical Energy

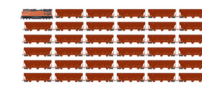
Motion Energy

Transportation Math!



1 barge

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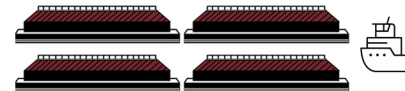


35 train cars

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134 semi-trucks

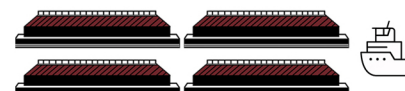


4 barges

=



140 Train cars



4 barges

=



536 Semi-Trucks