

STREAM Pea Shoot Research Project

Top 5 reasons to grow pea shoots

1. **100% Success**
2. **Fast growing**
3. **40% more nutritious than store bought peas**
4. **Inexpensive and multiple harvests for each planting**
5. **Perfect plants for research /Engineering Design Process**

Standards:

ACE Collaborative 6-8 Life Science Course Outcome: 3. SWBAT employ the scientific method, conduct experiments, and convey results in a meaningful fashion.

Next Generation Science Standards: Encompasses ALL of the NGSS Standards

1. Asking questions and defining problems
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations and designing solutions
7. Engaging in argument for evidence
8. Obtaining, evaluating, and communicating information

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Engineering Design Process/Scientific Method

Identify:

-Hypothesis

Investigate:

Imagine:

Plan: Draw out the design, control=

variable=

-Materials

-Method

Create:

Test:

-Record your data, analyze results, and draw a conclusion

Improve:

Communicate:

Steps to Success:



Step 1
Add approximately 2 cups of soil to pot.

Step 4
Measure your success!
When shoots are 7" tall they are ready to harvest.



Step 2
Add 50 seeds to the soil and cover with about 1/2 cup of soil.

Step 5
Harvest by cutting above the bottom leaves, leave about 3" of stem.



Step 3
Place pot on tray and add 8 oz of water. Water plants periodically when soil is dry to the touch.

Step 6
Enjoy eating the pea shoots raw or on a salad. Plants will regrow with just water and sunshine.



Clear plastic cups are an awesome choice because you can see the seeds sprout and the roots grow.

1. Make a drain hole in the bottom of the cup. (I use a hot glue gun to melt the hole in the bottom.)
2. Fill the cup $\frac{3}{4}$ full of soil. (Potting soil is much lighter than garden soil and works better.)
3. Place 50 pea shoot seeds on top of the soil.
4. Place pot on tray and pour 1 cup of water over the seeds and let the excess water drain out. (OMIT FOR TODAY, DO THIS WHEN YOU ARE READY TO SHARE THIS WITH YOUR CLASS)
5. Cover the seeds with $\frac{1}{2}$ inch of soil
6. FOR TODAY PUT A SHEET OF PLASTIC WRAP ON THE TOP AND ADD A RUBBER BAND SO IT DOES NOT SPILL.
7. FOR TODAY PUT YOUR TWO CUPS WITH PEA SHOOT SEEDS IN A PLASTIC BAG SO YOU CAN TRANSPORT IT EASILY

Contact me at stoltzshirley@gmail.com when you want more pea shoot seeds.