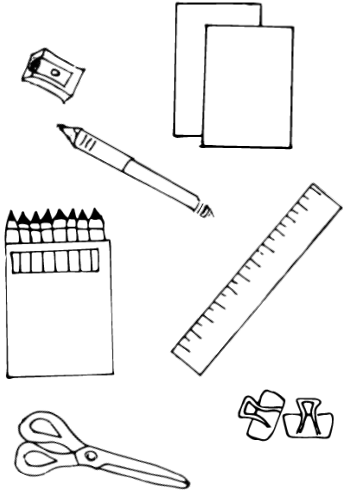


ROOT GROWTH FLIP BOOK



Supplies:

- 2 sheets cardstock
- #2 Pencil
- Ruler
- Scissors
- Colored Pencils
- Pencil Sharpener
- Dual Point Sharpie
- 2 Binder Clips

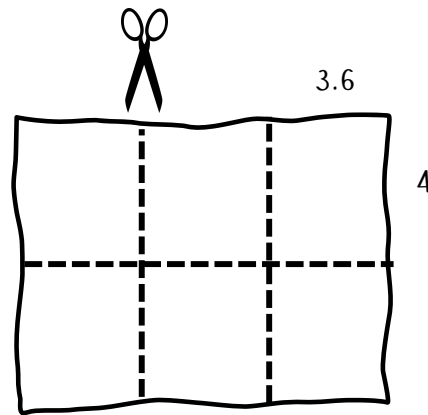


1. Cut Paper

Fold your paper into thirds the long way. Use your ruler to check that each section is about 3.6 inches. Next fold the paper in half like a hot dog. Each half should be 4 inches.

2. How do plants grow?

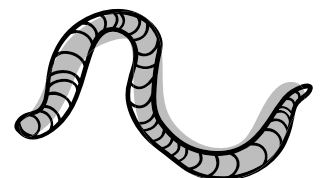
Each page of your flip book represents a stage of growth. Your plant should start as a small seed underground, with a single root shoot.

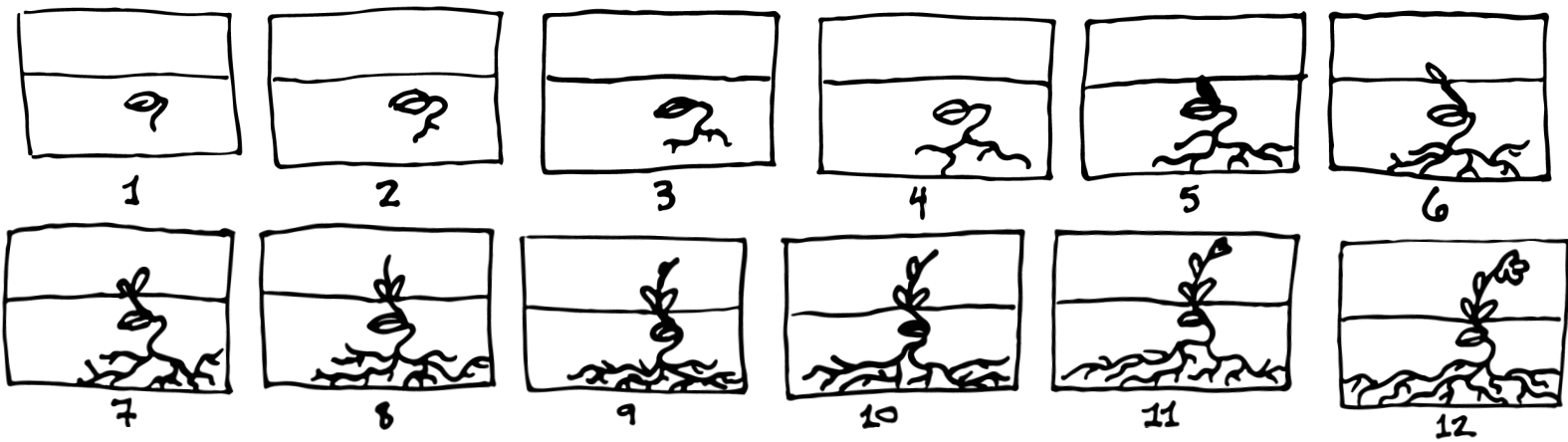


With your scissors cut along the folds to make 6 pages. Repeat with the second page of cardstock to get 12 pages total.

3. How do Roots know where to go?

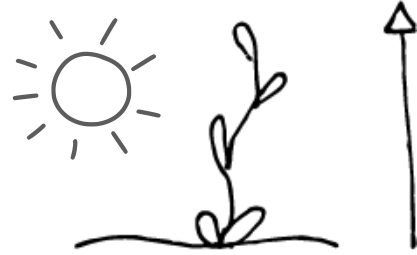
On each page the roots should grow longer and wiggle through the soil. What are they reaching for? What do they need to avoid and why?





4. What do leaves need to grow?

On each page grow your plant little by little with the leaves reaching up and out. Why do plants need the sun?



5. What part do plants play in the ecosystem?

Get Creative. What environment does your plant live in? What creatures live on or around your plant. Will your plant grow a flower or vegetable?

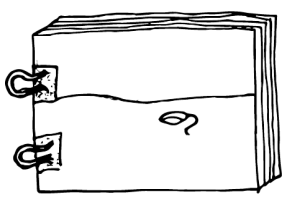
6. Animating your book

Remember you have 12 pages to fill, your plant should grow gradually from page to page. On each page you should copy the previous image and add roots + leaves little by little.

* You may want to plan out your book with pencil and finalize with sharpie. Or you may want to complete each page as you go.

7. Flip

Place pages in order from small seed to large plant. Clip the left edge with your binder clips and your book is ready to flip!



If you're having trouble flipping you may want to offset the short edge of your book, to create more of a tab for your thumb to flip.

Further Reading

A Seed in Need Godwin and Abel
How Plants and Trees Work Dorion and Young

A Seed is Sleepy Aston and Long
Incredible Plants Barbara Taylor



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