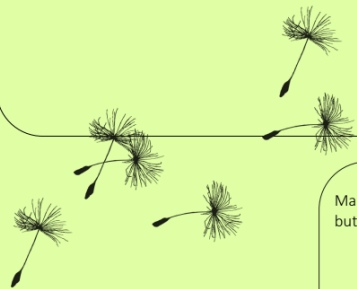
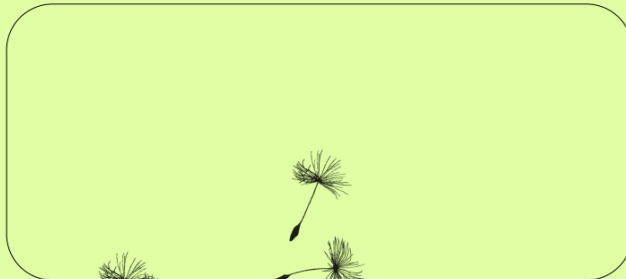


DANDELIONS

THE FLIGHT OF THE DANDELION SEED

Each dandelion seed is attached to a bundle of roughly 100 feathery bristles known as a pappus. Use a magnifying glass to count the pappus.



Fact:
To float away, the right number of flying hairs is required. The flying hairs look like small brushes and act as parachutes.

Make a list of things that are important but also tricky to spread.

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TALL SKYSCRAPERS

Today, very tall skyscrapers are being built where you ignore using a steel skeleton inside to make it more stable. Instead, concrete is used with holes or I or H beam systems that are stable and manufactured with minimal material waste.

Draw and build models of strong, tall houses that can withstand strong winds. The houses should be built with as little material as possible.

Fazlur Khan designed the John Hancock Center building. The strangler fig inspired him.



<https://enr.com/story/skyscrapers/2013/04/10/john-hancock-center-2>

Design a Skyscraper inspired by Dandelions.

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Explore Dandelions

LET DANDELIONS GROW

Weed or Useful plant?

Many people think that dandelions are a weed.

What is a weed?

What do you think? Is the dandelion a weed?

Is it a wildflower?

Or something between wildflower or weed?



Make a list of the benefits of dandelions.

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WEED OR USEFUL?

Write an argumentative text that supports or does not support the idea that dandelions are useful.



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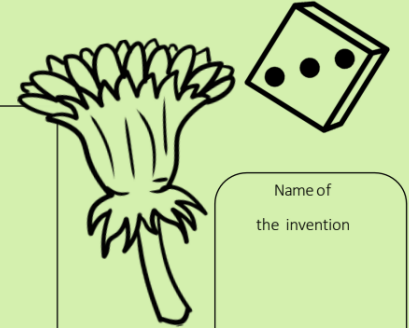
DESIGN CHALLENGE

Use "random" words to design something by using dandelions as inspiration.

Roll the dice and use the words below as inspiration.

Make a drawing of your design. Can you build a model?

1. Cake
2. Air Balloon
3. Sport
4. Lamp
5. Fan
6. Your own choice



Name of
the invention

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Great to Use for

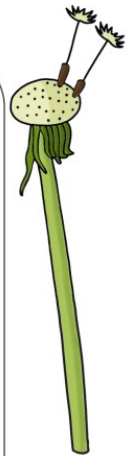
- ❖ Spring
- ❖ Plant Units
- ❖ Critical & Creative Thinking
- ❖ Biomimicry Projects
- ❖ Environmental Units

DANDELION STALK STRONG & HOLLOW

Why is the dandelion stalk hollow?

Why don't dandelions fill the stalk?

What can we learn from the way
dandelions use resources and
building materials?



Nature does not waste material. The dandelions use only strength where needed, which saves resources and building materials.



Review – Math Journal Prompts

“A wonderful set of problems to get students thinking; and I love the extra challenge provided by showing their work to explain how they arrived at the solution. Thank you for the great prompts!”

“I sent this booklet home for parents to help one of my students. It was easy to put it together. Thank you!”



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