

STEAM PROJECT BY ARTIST JESSICA LING FINDLEY

SEED SPREADING SCULPTURE

Create a sculpture that disperses seeds inspired by the way nature spreads seeds.

ESTIMATED TIME: 1-2 HOURS



Materials Needed

- Paper and pencil to design
- Found items in the home to build



STEP 1 LEARN

MAKE A SCULPTURE FOR SEED DISPERSAL INSPIRED BY NATURE

Watch these video with these examples of seed dispersal:

<https://youtu.be/6hcjxaBz8mw>

<https://youtu.be/xY4JFOSuqvY>

Can you match the picture with the seed dispersal type?

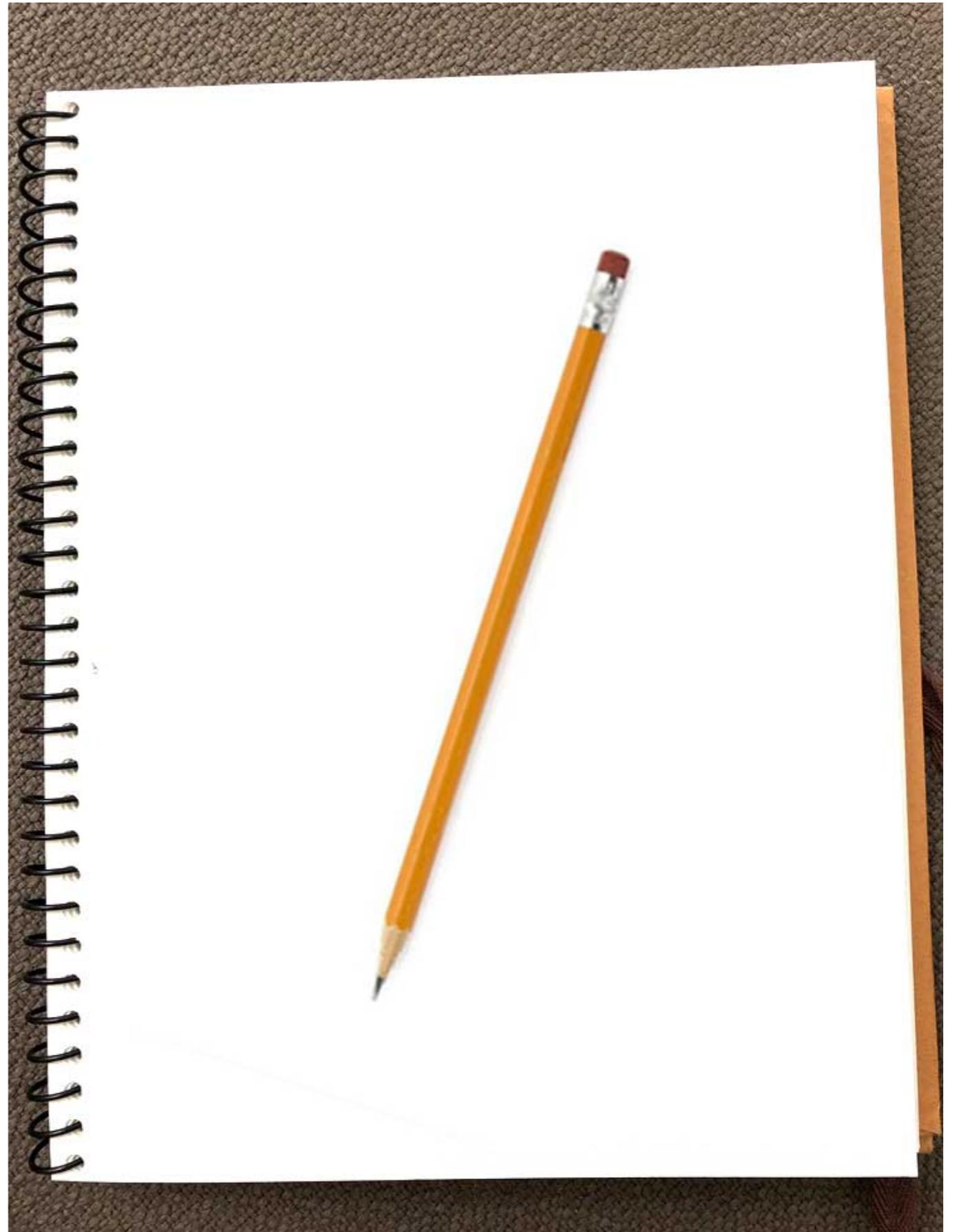
- Wind
- Water
- Ballistic (Explosions)
- Animals
- Gravity
- Fire



STEP 2 DESIGN

SKETCH SEED DISPERSAL SCULPTURE IDEAS

- How can you spread seeds in a new way?
- Sketch out some ideas for a sculpture or invention that helps disperse seeds using any of the methods you learned about for inspiration.
- Your ideas can be silly or crazy but your goal is to make it work to spread seeds.
- How will your design be used?



STEP 3 BUILD

PICK YOUR FAVORITE IDEA AND BUILD IT

- Look around at the materials you can use at home to make your sculpture. This might help you select your idea you can build.
- How will you assemble your design?



STEP 4 TEST & SHARE

SHARE WITH THE WORLD

- Bring your sculpture out into the public and see what the reactions are!
- Write a description of your sculpture and how it works or describe it in a video. What was your inspiration?
- Send pictures to your classmates friends and family
- Send me a picture of your sculpture in action j@sonicribbon.com

About my sculpture: I heard a scientist say plants can't walk to a new location so I decided to make seed dispersal slippers to help give plants legs. These purple grass normally fall or are blown by the wind. When I walk around the seeds fall and are blown by wind and carried by an animal. Me!)



COMBINING ART, SCIENCE AND ENGINEERING OBJECTIVES / STANDARDS

NGSS Standard Grades 2

- **K-2-ETS1-2.** Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
- **LS2-2 Ecosystems: Interactions, Energy, and Dynamics-** Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.**
- **K-2-ETS1-1.** Ask questions, make observations, and gather information about a situation people* want to change to define a simple problem that can be solved through the development of a new or improved object or tool. (substituting plants for people)

VAPA Standards

- **2.0 CREATIVE EXPRESSION** Creating, Performing, and Participating in the Visual Arts



VOCABULARY

- Vocabulary
- Pollination
- Seed Dispersal
- Dormant
- Hitchhiking seeds
- Ballistic

CREATED BY ARTIST JESSICA LING
FINDLEY IN ASSOCIATION WITH COTA
(COLLABORATIONS: TEACHERS & ARTISTS)

MORE LESSONS BY THE ARTIST

www.JessicaLingFindley.com/lessons

