



### Connecting FOSS to Northern Arizona

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### Overview:

**Pg. 1 Introduction:** Explains the project "Connecting FOSS to Northern Arizona"

#### **Table of Contents**

**Contact Sheet:** Important names, numbers, e-mails and websites for reference information, guest speakers, and program possibilities

**Possible Field Trips:** Local field trip sites and programs that would be appropriate and place-based

**Book List:** A list of both reference and literature books that might be helpful for use with this kit

**Web Resources:** A list of websites that are informative for both teachers and students

**Pg. 1 Extension 1:** "Field Sketching," tips on field sketching, how to incorporate art and science

**Pg. 1 Extension 2:** "Native Plant of the Week," some ideas for weekly exploration of native plants

**Pg. 7 Note:** Use science words from these activities for vocabulary and spelling lists

**Pg. 7 Note:** The Old Cave's Crater Botany Kit from the Resource Center for Environmental Education is a great tool—call them (520-779-1745)

**Pg. 9 Note:** Wisconsin Fast Plants for faster growing seeds (hotline: 1-800-462-7417) or at Carolina Biological Supply: 2700 York Road / Burlington, NC 27215 / (800) 334-5551

### Activity 1: *Brassica Seeds*

**Pg. 2 Note:** Call Native Plant and Seed (773-9406) to see if native mustard (*Brassica*) seeds can be purchased and a packet possibly included in the Foss kits for place-based learning.

**Note:** Take students to Native Plant and Seed as a field trip.

**Pg. 2 Supplement 1:** "Mustard History," some notes on the history of plants in the mustard family.

**Pg. 4 Extension 3:** "Pressed Flower Art": Art and science projects using pressed flowers.



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### Activity 1: *Brassica Seeds* Cont'd:

**Pg. 4 Extension 4:** “Printing with Nature”: Make prints with leaves and flowers

**Pg. 9 Supplement 2:** Substitute for non-consumable cups- Recycled Paper Seedling Pots Green Thumbs pg. 22-23

**Pg. 13 Note:** As the brassica seeds begin to sprout the students can start edible sprouts in the classroom

**Pg. 15 Note:** Discuss other types of leaves, flowers, roots, seeds and stems. Use native vegetation. (i.e. pine needles, wildflowers, camas bulbs, pinyon nuts, etc.)

### Activity 2: *Grass and Grain Seeds*

**Pg. 2 Note:** Identify Native Grasses using the Botany Pictures (RCEE)-while going on a walk or scavenger hunt

**Pg. 2 Note:** Call Native Plant and Seed (773-9406) to see if native seeds can be purchased and a packet possibly included in the Foss kits for place-based learning. Take students to Native Plant and Seed as a field trip.

**Pg. 3 Note:** Research Native American uses of grass  
**Note:** Note the interesting flowers, and seeds of grasses. Inquire into how they might be distributed (mostly wind).

**Note:** Make up stories about how the seeds get spread.

**Pg. 4 Extension 5:** “Hitchhiking Seeds”: Figure out how seeds travel by walking through grasslands and meadows with large socks pulled over your shoes. Analyze what you catch.

### Activity 3: *Stems*

**Pg. 2 Note:** Grow Aloe Vera—discuss medicinal benefits



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Activity 3: *Stems* Cont’d:

- Pg. 3 Note:** Talk about big “stems” or tree trunks!  
Discuss our native trees: Ponderosa Pine, Limber Pine, Aspen, Corkbark Fir, Douglas Fir, Englemann Spruce. Go on a field trip to look at different kinds of trunks.  
**Field Trip:** Drive up Snowbowl Road and stop on the side in different life zones.
- Pg. 10 Note:** Grow Potatoes—  
**Note:** Discuss history of the Flagstaff area- bean and potato fields. Contact the County Extension or Bryan Bates-CCC 928-527-1222, ext. 273, [brybates@coco.cc.a7.us](mailto:brybates@coco.cc.a7.us) - he is in the process of writing the history of Doney Park.

Activity 4: *Bulbs and Roots*

- Pg. 4 Extension 6:** “Onion Dyeing”: Make onion dyed hardboiled eggs. Discuss the other uses of plants in the onion (lily) family. Onion Dye-leaf prints pgs 28-31 [Nature Crafts for Kids](#)