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## Surviving & Thriving: Pollination and Seed Dispersal | 2nd Grade

How do plants reproduce and survive? An experienced Garden Guide will help you explore the busy life of plants in each season. Find evidence of plant reproduction from pollination, to setting fruit, to producing seeds, during your tour of the Garden grounds.

### *Program Overview*

Students will be divided into groups of no more than 10 students for each group. Each group will then be paired with one of our volunteer Garden Guides who will take the group on a walking tour of the Garden and facilitate different activities.

Activities in the **Fall** include a “parts of a flower” interactive magnet puzzle where students will work as a group to build a flower diagram; the other activity included is a scavenger hunt where students will work together and collect different seeds from the Garden. Activities in the **Spring** include a “parts of a seed” interactive magnet puzzle where students will work as a group to build a seed diagram; the other activity included is a seed dissection.

Chaperones are expected to assist with some of the activities by managing the materials, along with managing student behavior so that our Garden Guide can focus on facilitating the tour and activities.

Please review our [pre-visit materials](#) prior to your visit. As a reminder, be sure to have your class dress for the weather, wear comfortable walking shoes, and carry water bottles. Refillable water stations are available in the Garden.

### *Next Generation Science Standards ([NGSS](#))*

- 2-LS2-1. Plan and conduct an investigation to determine if plants need sunlight and water to grow.
  - LS2.A: Plants depend on water and light to grow. (2-LS2-1)

California Botanic Garden  
1500 N College Avenue, Claremont CA 91711  
(909) 625-8767 x206 or x245 | [registrar@calbg.org](mailto:registrar@calbg.org)



- 2-LS2-2. Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.
  - LS2.A: Plants depend on animals for pollination or to move their seeds around. (2-LS2-2)
- 2-LS4-1. Make observations of plants and animals to compare the diversity of life in different habitats.

### *Vocabulary*

- |  |                       |                     |
|--|-----------------------|---------------------|
| • <b>Flower Parts</b><br>(Sepal, Petal,<br>Carpel, Stamen) | • <b>Dispersal</b>    | • Dormancy          |
| • <b>Seed Parts</b> (Seed<br>Coat, Embryo,<br>Cotyledon)   | • <b>Life Cycle</b>   | • Energy            |
| • <b>Pollination,</b><br><b>Pollinator</b>                 | • <b>Seed</b>         | • Living, Nonliving |
|  | • <b>Flower</b>       | • Traits, Variation |
|  | • <b>Diversity</b>    | • Habitat           |
|  | • <b>Adaptation</b>   | • Environment       |
|  | • <b>Survival</b>     |                     |
|  | • <b>Reproduction</b> |                     |

### *Resources*

- *Wake, Sleepy One: California Poppies and the Super Bloom* by Lisa Kerr (Ages 4-8 / Grades K-2)
- *Protect the Pollinators* by Rachael Rose Zoller (Ages 5-6 / Grade K)
- *Animal Pollinators* by Jennifer Boothroyd (Ages 5-8 / Grade K-2)
- *Flip, Float, Fly: Seeds on the Move* by Joann Early Macken (Ages 6-9 / Grade 1-3)
- *The Dandelion Seed* by Joseph P. Anthony (Ages 5-9 / Grade K-3)
- *A Seed is Sleepy* by Dianna Aston (Ages 5-10 / Grade K-5)
- *Seeds Move!* by Robin Page (Ages 5-8 / Grade K-3)
- Learning @ Home: Pollinator Pairs  
[https://cdn.prod.website-files.com/5a6e317c7bd20a000184f439/5ff3a4a4658b9cf3861af244\\_Pollinator%20Pairs%20Final.pdf](https://cdn.prod.website-files.com/5a6e317c7bd20a000184f439/5ff3a4a4658b9cf3861af244_Pollinator%20Pairs%20Final.pdf)



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### *Resources (Cont'd)*

- Learning @ Home: Seed Necklace  
[https://cdn.prod.website-files.com/5a6e317c7bd20a000184f439/5ff3ac173552ec515bd760fb\\_Seed%20Necklace%20Final.pdf](https://cdn.prod.website-files.com/5a6e317c7bd20a000184f439/5ff3ac173552ec515bd760fb_Seed%20Necklace%20Final.pdf)
- South Coast Science Project: Hitchhiking Seeds Lesson Plan  
<https://scsp.chem.ucsb.edu/sites/default/files/sitefiles/lessons/Hitchhiking%20Seeds%20Lesson%20Plan.pdf> /  
<https://scsp.chem.ucsb.edu/life#Eco%20Lesson%20Plan>
- US Botanic Garden Flower to Seed, Seed to Flower Lesson Plan  
[https://www.usbg.gov/sites/default/files/attachments/flower\\_to\\_seed\\_lesson\\_plan\\_k-2nd\\_usbotanicgarden.pdf](https://www.usbg.gov/sites/default/files/attachments/flower_to_seed_lesson_plan_k-2nd_usbotanicgarden.pdf)