



## Activity Title: Exploring Seeds

### Materials Needed

- Seeds – bean seeds are a good option due to the size and relatively fast germination rate, however could add species exploration as a level to the experiment so would need a variety of species
- Ziploc
- Paper towels
- Water
- Optional – container to put seeds in
- Data sheet

### Data Sheets

The following data sheets are attached to this document. Teachers can choose which one(s) best suit the needs of their class:

- Germination Monitoring Sheet
- Germination Rate
- Germination Observation Sheet
- 5 Seed Graph and Table
- 10 Seed Graph and Table

### THE JOURNEY OF A SEED: GERMINATION MONITORING SHEET

Count the number of seeds germinated on each day and then you can remove the germinated seeds. They can be planted or disposed of. You will need to add all the days together at the end.

Date	Species or Condition*
<b>Total Number Germinated (add the seeds from all days)</b>	

\*Condition refers to differences in experimental set up. For example were seeds stored in light or darkness, warm or cold, etc. You are looking for differences in germination rate based on differences in your experiment, based on the different species you used or the different conditions you placed the seeds in.

### JOURNEY OF A SEED: GERMINATION RATE CALCULATION

Species or Condition*	Total Number of Seeds Germinated	Total Number of Seeds	Germination Rate (%)

\*Condition refers to differences in experimental set up. For example were seeds stored in light or darkness, warm or cold, etc. You are looking for differences in germination rate based on differences in your experiment, based on the different species you used or the different conditions you placed the seeds in.

To calculate germination rate, use this equation  $(\text{Total Number of Seeds Germinated} / \text{Total Number of Seeds}) \times 100\%$

Name:

Species:

How many seeds did you start with:

Where did you place your seeds:

Date	Observations – Number of Seeds Germinating, Is It Drying Out, Are Seeds Healthy?

How many seeds germinated:

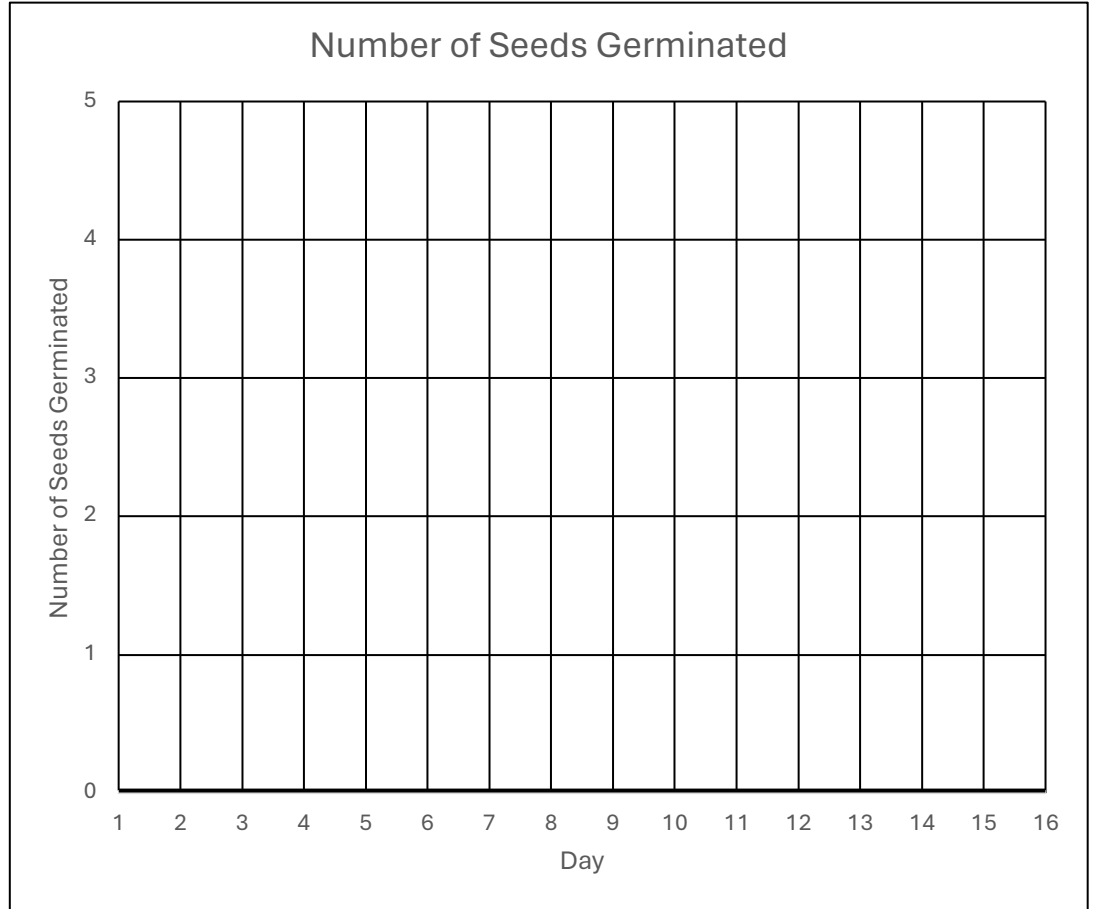
How long did it take for seeds to finish germinating:

Name:

Species:

Where Did You Put Your Seeds  
(dark, light, window, cupboard):

Day	Number of Seeds Germinated
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	



Name:

Species you are exploring:

Where are your seeds:

Day	Number of Seeds Germinated
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

