Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Plant Propagation

**Seed Dissection**

**Directions:** You will be dissecting bean, corn, and pea seeds. Have your Plant Reproduction notes handy with the diagram of the seed parts. First, answer the pre-lab questions below. Then, gather your materials and follow the remaining instructions.

**Supplies:**

-Paper towel

-Seeds (corn, bean, pea that have been soaked in water for 24-48 hours)

**Pre-Lab Questions**

1. Why were the seeds soaked in water overnight, prior to beginning the dissection?
2. What plant structure would you find a seed inside?
3. Is a seed inside a seed packet on a shelf considered living or dormant?
4. Are the seeds you will soon dissect living or dormant? (They have been in water at room temperature for a day or two.)

**Seed Dissection:**

Take each seed and carefully separate it in half. Draw a picture of each seed in the boxes below. Include all of the seed parts we have learned so far.

 **Pea Bean Corn**

Once you have completed the drawings, answer the follow up questions on the back of this sheet…

**Follow up Questions:**

1. Which seeds were easiest to split in half? Why?
2. There is an outer layer of the seeds that probably came off as you were dissecting the seed. What is this called?
3. What is the purpose of the cotelydon?
4. What adult plant parts will each of the embryonic parts become?
5. Are the seeds you are dissecting monocots or dicots? How can you tell?