



## Daisy's Photosynthesis Booth

Daisy is a super smart bunny who loves reading, writing, and learning. She's super cute, super sweet and super smart! The brainiest bunny around town! If she does not know the answer to a question, no problem, she finds the answers! Daisy wants to learn more about photosynthesis! Experiment with leaves in order to find the chlorophyll that is produced during this process!

### What you'll need:

- Leaves (You may need to experiment to find the perfect leaves for this activity).
- Hammer
- Paper
- Paper Towel
- Wooden Block or Hard Surface

**PHOTOSYNTHESIS:** Plants (organisms) need energy to survive. Sunlight is one way that plants absorb energy and change it into sugar which provide energy for the plant. The photosynthesis occurs mainly in the leaves. It requires carbon dioxide, water, and sunlight to touch the leaves, water finds its way to leaves through the roots of the plant, sunlight is absorbed by chlorophyll (**a green pigment on the leaves**) and carbon dioxide is obtained through tiny holes (pores) in plant leaves.

**FYI: More formal summary of photosynthesis.** Photosynthesis is a process in which light energy is converted to chemical energy and used to produce organic compounds. In plants, photosynthesis typically occurs within the chloroplasts located in plant leaves. Photosynthesis consists of two stages, the light reactions and the dark reactions. The light reactions convert light into energy (ATP and NADHP) and the dark reactions use the energy and carbon dioxide to produce sugar.

### The Activity:

- Use the above explanation to explain photosynthesis. Then explain to the children that they will use the chlorophyll to create images on the paper. Discuss the way the students get grass stains on clothes etc.
- Discuss the importance of the chlorophyll to the children.
- Place the leaf on the paper.
- Place a lightweight white paper towel on top.
- Gently hammer the spot where the leaf is until you see the full shape appear and the green color begins to soak through the paper towel.
- Lift the paper towel off and gently remove the leaf from the paper.
- Allow it to dry before touching.
- Repeat.

