



Kinder-Garden Activity List

Bee Game

Talk about the Bee Community and how each bee has a job. Together all the bees help ensure the success of the hive. If one job doesn't get done, the whole hive fails.

- Start simply (for younger children)
 - a. Assign 1-2 scout bees who have to go out to find a 'flower'.
 - b. When they find one, they should return to the rest of the class and do a 'waggle' dance, shaking their behind while they move in a circle or figure-8 shape.
 - c. The scout bees can then guide the rest of the bees to the flowers they found and
 - d. everyone collects 1 piece of pollen to bring back to the hive.
- For older children you can assign more roles.
 - 1 Queen - stays in the hive making eggs (bingo marker on paper),
 - Guard bees - won't let in anyone who isn't from the hive,
 - Scout bees - collect the pollen/nectar and bring it to the hive,
 - Worker bees -tend the baby bees and make the honey comb (can make 'comb' with play dough or pipe cleaners, can feed 'baby bee' larva empty jars of honey), and
 - Drones - flying around outside the hive doing nothing and having fun.
- Pollination challenge: you can also have multiple flowers set up each with a cup of differently colored pompoms.
 - a. All the bees fly from one flower to another,
 - b. pick up one piece of pollen and put it on another flower, then
 - c. take one piece of pollen from that flower and visiting another.
 - d. When you are done, show everyone how all of the flowers now have a mix of colored pompoms. That's how a flower gets pollinated!

Reflection: How is bee society like human communities? How is it different?

Act Out of the Parts of a Tree

With the class, define the major parts of a tree and the purpose of each. Then give a role to each child, acting out their roles as each new part of the tree is added. At the end, everyone acts their role at once.

- Heartwood: center of the tree, dead inner wood, gives tree its strength.
 - 1 child in the center, shows muscles and says "I make the tree strong"
- Sapwood (or Xylem and Phloem for the daring): conducts sap and water from the leaves to the roots and back.

- 2-3 children holding hands around heartwood, crouch and stand while saying “Going up! Going down!”
- Bark: protects the tree from disease and moisture loss.
 - 2-3 children march around the sapwood saying “We protect the tree”
- Leaves: produce sugar from the sun’s energy.
 - 2-3 children standing outside the circle of bark, waving their arms in the air and saying “we make the sugar, we make the sugar.”
- Roots: store sugar in the winter to be used for leaf formation in spring, pull water from the soil for tree.
 - 2-3 children sitting on ground with legs in front of them going “sluuuurp, sluuuurp”

Observational Drawings

- a. Have the children partner up.
- b. In the pair, one child will be the observer while the other is the drawer. The child observing will describe what they see, and drawer has to draw only what is described.
- c. The children can switch positions if they like.

Reflection: What was hard about each job? What are the children learning through this activity?