



TORONTO
BOTANICAL
GARDEN

MUNCHKINS IN THE GARDEN AND SEASON REASON
Kindergarten- Science and Technology

Post-TBG Visit Lesson Plan

Objectives:

Students will have solid understanding regarding natural occurrences and cyclical changes of seasons and demonstrate an awareness of local natural habitats. Students will have a better knowledge on how seeds grow through planting and observing.

Materials:

- worksheets(link)
- *Wormy Worm* by Chris Raschka
ISBN 0-78680-582-X
- glass jar
- black construction paper
- soil
- a variety of seeds
- knife, tape and glue

Note: This lesson will take one class period to begin and about two weeks daily observation sessions.

Lesson: (10-15 minutes)

Read the book *Wormy Worm* to the students.

Before: Ask students to say something about the worms they saw at TBG. Some cues: How long is a worm? Where do they live? Do they have eyes, ears or noses? What do they eat? What do they produce? Do they like being put in a dry place? It is OK if the kids cannot answer all the questions. Please remind them to focus on the book.

During: Read the book and show children the pictures in it.

After: Ask students if they learned more about worms. Also ask them why we should not hurt worms.

Activity: (25-30 minutes)

1. Draw a worm in the picture frame on the worksheet. Cut and paste its favourite food. (15 minutes)
2. Sing and play - A Little Wiggly Worm (sung to "I'm a Little Teapot" and add actions when necessary) (5 minutes)



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**I'm a little wiggly worm. Watch me go!
I can wiggle fast, or very very slow.
I wiggle around, then back I go.
Down into the ground, to the home I know.**

3. Plant and observe (10 minutes for planting, observation will take about two weeks)

Begin by briefly going over the three essential needs for seeds to grow -- soil, water and sunlight. Fill the glass jar with soil and put a couple of seeds in the soil, right against the inner wall of the jar. So when the plant begins to grow, the roots will grow against the wall. Make a cylinder with the black construction paper and cover the jar with the cylinder. Before the seeds sprout, always keep the jar covered unless for observation. On a daily basis, allow students to remove the paper cylinder and observe the growth of the seeds. After the seeds sprout, the paper cover can be removed.

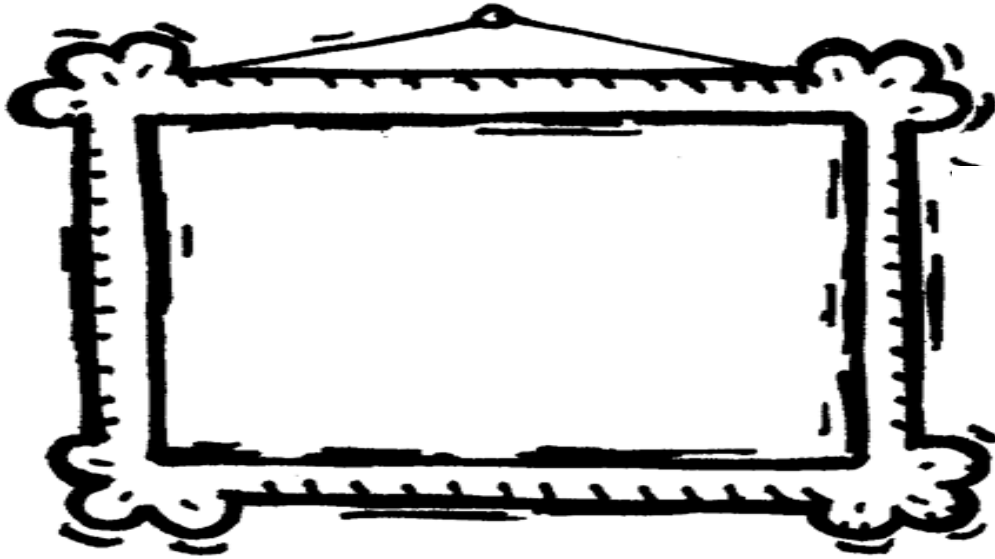
Closure:

Praise students for their excellent work. Tell students they have to be very patient for the seeds to sprout. Remind students after each viewing they should make sure to cover the glass jar with the paper cylinder until most seeds sprout.

Name _____ Date _____

I'm a Little Wiggly Worm

Please draw "Me" in the picture frame.



I'm so hungry!

Please cut and paste my favourite food on the plate. Thank you!

