

Beetle Burrows Collages
2018 February
1st Grade Garden Parent Outdoor Lesson #12

- Objective:**
1. To study the parts of beetles.
 2. To study how some insects hibernate over winter underground.

Time/location: The entire lesson can be done in **two, 35-45 minute periods** outside, weather permitting, or inside.

Materials:

- scissors
- pencils
- glue sticks
- a variety of colored papers
- clipboards (if outside)
- envelopes for each student for keeping cut parts between lessons
- A piece of grey (or black) and brown 8 x 10 colored paper for each student (for the burrows)
- "What Makes a Beetle a Beetle" worksheet

Literature:

- Bugs From Head To Tail**, by Stacey Roderick and Kwanchai Moriya
- Up in the Garden and Down in the Dirt**, by Kate Messner (available in the school library)
- Over and Under the Snow**, by Kate Messner (available in the school library)
- Poem: "Under The Ground"** by Rhoda W. Bacmeister

The Lesson:

Day 1

Part 1 / Read Bugs From Head To Tail, by Stacey Roderick and Kwanchai Moriya **5 Mins**

- Use the open-ended questions in the book to talk about parts of insects and varieties of shapes.

Part 2 / "What Makes a Beetle a Beetle" worksheet 10-15 mins

- Students work together at their table groups to read the worksheet.
- Using pencils, students invent their own beetle, drawing its shapes and other characteristics.
- If there is time, students can label the parts of their invented beetle.

Part 3 / Collage 20 mins

- Students begin to cut and glue the shapes of their bugs, using their drawings as a plan. Encourage them to change their plans if they need, but emphasize the characteristics of the beetle.

Part 4 / Call and Response Reading of Poem "Under the Ground"

Day 2

Part 5 / Call and Response Reading of Poem "Under the Ground" 5 mins

Part 6 / Connection with Sunprints/Hibernating Creatures 5-10 mins

- Introduce the idea that these bugs will be combined with our sunprints to show what is above and below ground over winter.
- Read last pages of "Up in the Garden and Down in the Dirt" and/or "Over and Under the Snow"

Part 7 / Students finish bug collaging if necessary 10 mins

Part 8 / Cut a Burrow for the beetles 15 mins

- Demo: Lay beetle down on the brown paper. Show how to draw a burrow shape that fits the beetle, cut that shape out, and paste it onto the grey/black paper. Glue the bug in its burrow.
- Students make their custom beetle burrows.

Part 9 / Assembly (at home)

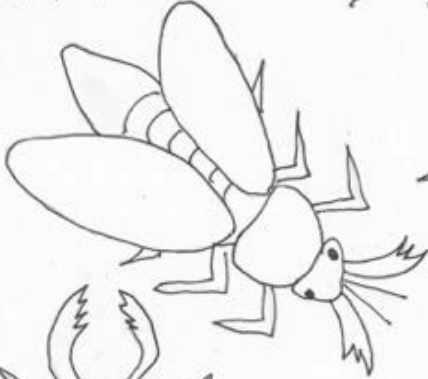
- Stack each student's beetle burrow and sun print vertically and tape on the reverse. Deliver to the classroom teacher.

What Makes a Beetle a Beetle?

- 3 body parts
- 6 legs
- antennae
- eyes
- wings
- horns? hair?



Invent a beetle.
Draw it here:

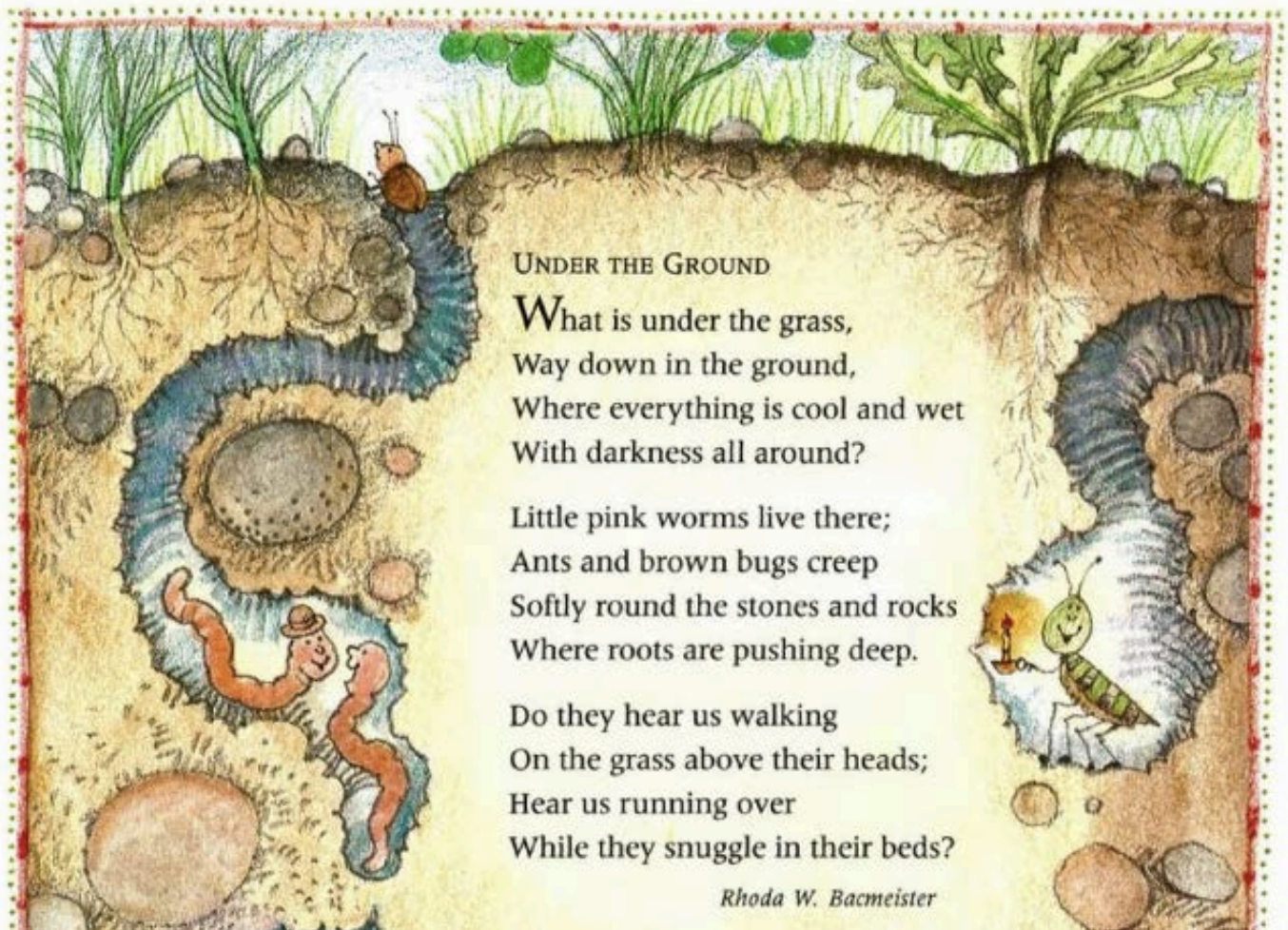


What markings does it have?

GUIDE FOR POEM
CALL/RESPONSE RECITATION, PANTOMIME & DISCUSSION

Under the Ground by Rhoda W. Bacmeister

- Invite students to sit or stand in a circle quietly and observe what they feel for a moment.
- We're going to learn poem: Under the Ground. Ask the students to repeat each line after you.
- Begin to recite each line along with a small pantomime that goes along with the phrase.
- If there's time and depending on how quickly this goes, repeat the poem and/or:
- Ask each student how they think the bugs worms, feel underground in their burrows:
Is it cool or warm, soft or hard, quiet or loud?



UNDER THE GROUND

What is under the grass,
Way down in the ground,
Where everything is cool and wet
With darkness all around?

Little pink worms live there;
Ants and brown bugs creep
Softly round the stones and rocks
Where roots are pushing deep.

Do they hear us walking
On the grass above their heads;
Hear us running over
While they snuggle in their beds?

Rhoda W. Bacmeister



