

Putnam Soil and Water: 2nd Grade Programs

The following programs are designed for 2nd grade classes and align to state standards. All materials are provided and programs are free. To schedule a program email Bonnie Brooks at bonnie.brooks@putnamcountyohio.gov

Second Grade: 2.PS.1: Forces change the motion of an object. 2.LS.1: The environment is a combination of the interactions between living and non-living components. Living things cause changes in the environments where they live. Topic 2: 2.ESS.2: Water is present in the atmosphere.

1. Worm Bin – What living and non-living things are in a bin? Explore contents with a 1000 x magnifier and identify what they find. We will debrief what everyone found and talk about how worms change their environment. Students will bring home a coloring page.
2. Worm Bin II - The class will brainstorm everything we know about worms. We will then identify any missing pieces from what we brainstormed in regards to a worm's environment and health. Students will design, with a partner, a worm home that they can observe over the course of several weeks utilizing materials they can bring in from home. After researching and designing their home they will build it, populate it and collect data on it.
3. Soil Buddies – What living and non-living components allow plants to grow and produce food? What is necessary to make seeds to make new plants? Students will make a soil buddy to take home.



4. Enviroscape: 3D landscape model that shows how we humans can positively and negatively affect the environment.



5. Augmented Reality Sandbox: Remake human and animal actions in the soil and watch results on the Earth. Water is present in the atmosphere. Soil organisms effect plant growth and rain.



6. Monarchs, Milkweed and Seeds: Learn all about this amazing insect and plant and then build a Monarch. The milkweed plants literally support humans as well as over 400 species of organisms. We will disperse milkweed seeds and floss if we have them. Kids plant a milkweed seed to take home.

7. Fossils and Tracks: Kids check out USGS colorful posters. They will each get a fossil to match to a poster that has their fossil. Are these animals still alive today? Kids will make an animal track with plaster of Paris to show how some fossils are made. Students may take their track home.