



Kosciusko County Solid Waste Management District
220 South Union Street, Warsaw, IN 46580
P: 574.372.3087 | F: 574.372.3088
<http://www.kcrecycling.com>

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Below you will find the course offerings from KC Recycling for the 2019-2020 school year! There are some changes from years past, so please have a look and see if you would like to schedule a lesson. All educational lessons are offered for free to Kosciusko County schools. If you have questions or want to schedule please send an to email educationsource@embarqmail.com at any time.

All year (September – May)

Title: Mother Earth **Grade:** Pre-K, K **Length:** 30-40 minutes

In a costumed appearance, Mother Earth comes to visit the children full of litter and exceptionally sad. Through the children's help Mother Earth is cleaned up and the litter is taken care of! This interactive lesson uses the book "Just a Gum Wrapper" by Gina & Mercer Mayer to reinforce the idea of taking care of the Earth together.

Standards: K.1.3, K.2.4, K.3.7, K.LS.2, K.LS.3, K.ESS.4, K.DA.1, K.W.3.1

Title: Timmy the Trash Truck **Grade:** Pre-K, K **Length:** 30-40 minutes

Through the use of the book "The Very Happy Trash Truck" by Marilyn Frederick as well as a replica recycling truck, the children learn about the waste we make. After reading the story we discuss together waste diversion in simple terms – how to make sure we *only* throw away trash items and recycle everything we can.

Standards: K.1.3, K.2.1, K.2.4, K.3.7, K.4.2, K.2.E.1, K.PS.2, K.ESS.4, K.DA.1, K.W.3.1

Title: Compost Stew **Grade:** K, 1 **Length:** 30-40 minutes

Can you recycle food? Students learn that you can by employing the Earth's method of recycling: composting. Using a rhyming story book, students learn about waste reduction through composting. They also help "make" classroom compost with a sorting activity.

Standards (K): K.1.3, K.3.5, K.3.7, K.PS.2, K.ESS.4, K.LS.2, K-2.E.1, K.M.2, K.SL.2.5, K.RL.1, K.RF.3.1

Standards (1): 1.RL.4.1, 1.RN.2.2, 1.SL.2.1, 1.SL.4.3, 1.DA.1, 1.ESS.4, 1.LS.4, K-2.E.1, 1.2.3, 1.3.6, 1.3.9

Title: I Dream of Recycling **Grade:** 1 **Length:** 40-45 minutes

Wishcycling has become a big deal these days. Don't know what that is? No problem, have the Genie come visit your students to show them that not everything is what it seems when it comes to recycling. The class learns about contamination in recycling bins and what they can do to help out through an interactive activity.

Standards: 1.1.1, 1.4.1, 1.4.2, K-2.E.1

Title: The Garbage Monster **Grade:** 1 **Length:** 40-45 minutes

Garby is a Kosciusko County legend! Students meet this life size trash can monster named Garby and learn how to tame him so he isn't so scary anymore by reading the book "Garbage Monster" by Joni Sensel. We discuss natural resources, how landfill space is saved by recycling, and how to keep only trash in the trash can.

Standards: 1.RL.2.4, 1.RL.4.1, 1.RV.3.1, 1.W.3.1, 1.SL.2.1, 1.ESS.4, K-2.E.1, 1.2.2, 1.2.3, 1.3.9, 1.4.5



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Title: Re-Cycles

Grade: 2

Length: 40-45 minutes

A cycle is a cycle right? *Wrong!* Students learn in this lesson how the manmade cycle of recycling differs from natural cycles like the soil and water cycles. After examples and discussion, students will then see recycled content items and try to guess what they were before and what natural resource was saved by recycling them.

Standards: 2.SL.2.1, 2.SL.2.2, 2.ESS.4, 2.LS.2, K-2.E.1, K-2.E.3

Title: Waste Then & Now

Grade: 2

Length: 40-45 minutes

Students travel back in time utilizing pictures to learn that the trash we make now is a lot *more* trash and *different kinds* of trash than what people have made over the past couple of hundred years. Students use a life-size Venn diagram to sort various wastes into THEN, NOW, and BOTH categories. Students learn about modern waste disposal and processing, including recycling, and their ecological impact over a lifetime.

Standards: 2.SL.2.1, 2.SL.2.2, 2.ESS.4, K-2.E.1, K-2.E.3, 2.1.2, 2.2.7

Title: Who Polluted the River?

Grade: 3

Length: 45-50 minutes

In this interactive program we explore how our community water resources are all connected and how pollution enters our waterways and affects our lives. We take a river ride with a plastic bottle as it travels from Tippy Lake to the Gulf of Mexico. Students will all take part in polluting the river and then be challenged to clean it up!

Standards: 3.RN.2.3, 3.RN.3.1, 3.SL.2.3, 3.SL.2.4, 3.SL.2.5, 3.M.2, 3.LS.3, 3-5.E.2, 3.2.5, 3.2.6, 3.3.1, 3.3.2, 3.3.3, 3.3.12

Title: Ready, Set, Recycle!

Grade: 3

Length: 50-60 minutes

Part game show format, part sorting relay challenge, this lesson is a whole lotta fun. We use a two-team format to use the students' current recycling knowledge with trivia questions then they get up to get the blood flowing with a relay race where they sort the recyclables. This is a great refresher lesson for all they've learned about recycling so far!

Standards: 3.2.5, 3.3.12, 3.3.13, 3-5.E.2, PE.3.4.3.A

Title: Edible Landfill

Grade: 4

Length: 60 minutes

Where does our trash go? Students learn why sanitary landfills are important to the health and safety of a community. They will analyze the types and amounts of various types of trash that go to a landfill and discuss the best options for each waste. We also learn about leachate and its impact on water quality. Students get to enjoy an edible model of a landfill at the end!

Standards: 4.SL.2.4, 4.SL.3.1, 4.SL.3.2, 4.DA.3, 4.PS.4, 4.ESS.2, 4.ESS.4, 3-5.E.1



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Title: Throwing Away Water

Grade: 4

Length: 60 minutes

A lot of food gets thrown away and so does the packaging. Did you know you're throwing away hundreds of gallons of water in the process? This interactive lesson walks students through doing a waste audit of a trash can after a typical lunch period. They explore mathematic equations to discover just how much waste is accumulated at various intervals over the span of a school year as well as how much water is thrown away, too.

Standards: 4.NS.2, 4.C.1, 4.C.4

Title: Edible Aquifer

Grade: 5

Length: 60 minutes

Students learn the impact of household hazardous waste (HHW) and its impact on water quality. Using a hands-on activity, students identify HHW through the identification of signal words on common product labels. To illustrate how HHW can contaminate ground water, students build (and eat!) an edible model of an aquifer.

Standards: 5.ESS.3, 3-5.E.1, 5.RV.2.5, 5.RV.3.2, 5.SL.3.1

Title: Oil Spill

Grade: 5

Length: 60 minutes

In this interactive program, students learn about the effects of oil pollution on our waterways. Small groups are given the task of using a budget to "purchase" real world items to clean up a simulated oil spill right in the classroom. Student groups collaborate to make an Emergency Response Plan, purchase supplies, and perform their clean-up. Groups will then report to the class on the effectiveness of their clean-up plan.

Standards: 5.ESS.3, 3-5.E.1, 3-5.E.2, 5.AT.5, 5.C.8, 5.4.9, 5.SL.4.1, 5.SL.4.2

Title: The 5 R's

Grade: 6

Length: 60 minutes

"Reduce, reuse, recycle" was born in the 1970's but the popular slogan has been updated for the modern world. This lesson introduces students to the addition of *reject* and *rot* to waste management. We'll take a look at common household items to determine what percentage of the things we interact with daily have end of life paths that don't include the landfill.

Standards: 6.2.7, 6.3.10, 6.LS.3, 6.RV.2.1

Title: Freddie the Fish 2.0

Grade: 6

Length: 60 minutes

This lesson is an update on the old Freddie the Fish story. The students still get to pollute his habitat during this interactive skit, but we take a deeper look at quantifying the impact of hazardous waste on our waters. We will also look beyond local issues to realize the water pollution issue on a global scale.

Standards: 6.3.5, 6.3.8, 6.3.12, 6.LS.1, MA.6.DS.3

The following pages include seasonal or short-term lesson selections as well as our book of the month program. Please keep reading to see what's new!



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Seasonal and Short-term Lessons

Title: Worm Bins

Grade: 1, 2

Length: 30 minutes x 2

Offered: January to April

Your class will learn all about worms and how these decomposers help with nature's recycling process. We will learn about worm anatomy and the worm habitat in the first session. During the second session we cover the worm habitat and how to properly care for your new class pets! Students will observe them over the next few months as they recycle organic waste into rich vermicompost. **Please note: For 2019-2020 this has been converted into two 30 minute sessions due to the volume of material covered. This change was made to increase knowledge retention for our young learners!**

Standards (1): 1.3.9, 1.ESS.4, 1.LS.1, 1.LS.2, 1.LS.3, K-2.E.2, 1.W.3.2

Standards (2): 2.4.2, 2.LS.2, 2.LS.3, K-2.E.2, 2.CA.1, 2.W.3.2

Title: Worm Gardens

Grade: Any

Length: 60 minutes

Offered: September, October, March, April

A take-home version of our popular vermicomposters. Students will learn about red wiggler worms and how they decompose real table scraps into nutrient dense natural fertilizer. Afterward they visit different stations to get hands on and construct a worm "garden" in a deli container with three worms they take home with them! This lesson is offered seasonally as to give the worms the opportunity to thrive should the students wish to release the worms into the wild. It can be modified for any learners from Kindergarten through high school.

Standards: Dependent upon grade

Title: Paper Making

Grade: 1, 2, 3, 4, 5

Length: 60 minutes

Offered: October, November, April, May

This lesson is a messy good time for all! Students engage in a lesson about the origins of paper and how a modern machine changed the process forever. In the fall classes make their own paper pumpkins and in the spring they will make paper earths. *It is suggested to have at least 1-2 volunteers available for this lesson to assist with the paper making process!*

Standards: Dependent upon grade

Book of the Month

This year I am introducing something new! Each month will focus on a different environmentally relevant book, kind of like a book club, that I will come read to your class. It is designed to take about 30 minutes of class time with supplemental materials for the specific grade level left with the students. These will range from discussion questions to writing prompts to engage them in continued thinking about what was covered.

September: The Tree Lady by H. Joseph Hopkins

October: Pumpkin Jack by Will Hubbell

November: One Plastic Bag by Miranda Paul

December: Heal the Earth by Julian Lennon

January: The Wartville Wizard by Don Madden

February: The Most Magnificent Thing by A. Spire

March: The Mystery Litterbug by Marishu

April: I Choose to Act Green by Maria Godsey

May: Here We Are by Oliver Jeffers