EDUCATOR GUIDE

2019 Book of the Year







Our Mission

To increase agricultural literacy through K-12 education.

Our Vision:

Agriculture is valued by all.

Agriculture in the Classroom is a grassroots agricultural outreach program for school children in grades Pre-K through 12, facilitated by Indiana Farm Bureau and coordinated nationwide by the United States Department of Agriculture. This program helps kids understand where the food they eat is grown and how important farmers are to their daily lives.

Registered volunteers from across the state visit classrooms to teach more than 60,000 students about agriculture each year. They utilize in-class lessons, hands-on activities, educational events, on-farm experiences and field trips.

Indiana Ag in the Classroom offers standards-based lessons and materials; many free of charge, to schools, community groups, and other non- profit organizations that wish to integrate agriculture into their curriculum.

We believe:

- Increased understanding of agriculture allows individuals to make informed choices about nutrition and health for themselves and family.
- Informed citizens will be able to participate in establishing the policies that will support a competitive agricultural industry in this country and abroad. (agday.org)
- Beginning in pre-kindergarten and continuing through 12th grade, all students should receive some standards-based education about farming and agriculture outside of agricultural education courses.
- Agricultural literacy includes an understanding of agriculture's history and current economic, social and environmental significance to all Americans. This understanding includes some knowledge of food and fiber production, processing and domestic and international marketing.
- An agriculturally literate person is defined as "one who understands and can communicate the source and value of agriculture as it affects our quality of life." (NAITC)

Book of the Year Agriculture Literacy Program

Program Purpose:

To increase understanding, build awareness and develop a positive public perception of Indiana agriculture through education.

Student Goals:

- Understand how food, fiber and renewable resource products are produced and by whom.
- Realize that science plays an important role in our food supply and that the scientific advancements in food production are safe, proven and necessary.
- Acknowledge and consider career opportunities in the agriculture, food, fiber and renewable resource industries. (agday.org)

What is Agricultural Literacy?

A person who understands and can communicate the source and value of agriculture as it affects our quality of life. (National Agricultural Literacy Logic Model, 2013)

The Importance of Agriculture Literacy

- An increased knowledge of agriculture and nutrition allows individuals to make informed personal choices about diet and health.
- Informed citizens will be able to participate in establishing the policies that will support a competitive agricultural industry in this country and abroad.
- Agriculture is too important a topic to be taught only to the small percentage of students considering careers in agriculture and pursuing vocational agricultural studies.
- Agricultural literacy includes an understanding of historical and current economic, social and environmental issues that affect all Americans. This understanding includes being knowledgeable about food and fiber production, processing and domestic and international marketing. Employment opportunities abound in agriculture. Career choices include:
 - o farm production
 - agribusiness management and marketing
 - agricultural research and engineering
 - food science
 - processing and retailing
 - banking
 - education

- landscape architecture
- urban planning
- energy
- o and other fields.

Indiana Academic Standards Met Through Related Activities

Kindergarten	1 st grade	2 nd Grade
K.ESS.4 Communicate	1.ESS.2 Observe and	2.PS.1 Plan and conduct an
solutions that will reduce	compare properties of sand,	investigation to describe and
the impact of humans on	clay, silt, and organic	classify different kinds of
the land, water, air, and/or	matter. Look for evidence of	materials by their
other living things in the	sand, clay, silt and organic	observable properties.
local environment.	matter as components of	
	soil samples.	2.PS.4 Analyze data
K.LS.1 Describe and		obtained from testing
compare the growth and	1.ESS.3 Observe a variety of	different materials to
development of common	soil samples and describe in	determine which materials
living plants and animals.	words and pictures the soil	have the properties that are
	properties in terms of color,	best suited for an intended
K-2.E.1 Pose questions,	particle size and shape,	purpose.
make observations, and	texture, and recognizable	
obtain information about a	living and nonliving items.	K-2.E.1 Pose questions,
situation people want to		make observations, and
change. Use this data to	1.ESS.4 Develop solutions	obtain information about a
define a simple problem	that could be implemented	situation people want to
that can be solved through	to reduce the impact of	change. Use this data to
the construction of a new	humans on the land, water,	define a simple problem
or improved object or tool.	air, and/or other living	that can be solved through
	things in the local	the construction of a new or
Environment & Society	environment.	improved object or tool.
K.3.7 Recommend ways		
that people can improve	Physical Systems	Economics -Standard 4
their environment at home,	1.3.6 Explain the effect of	Students describe how
in school and in the	seasonal change on plants,	people in a community use
neighborhood.	animals and people.	productive resources, create
		a variety of businesses and
	Environment and Society	industries, specialize in
	1.3.9 Give examples of	different types of jobs, and
	natural resources found	depend on each other to
	locally and describe how	supply goods and services.
	people in the school and	
	community use these	
	resources.	

About the author - Mary McKenna Siddals

Compost Stew: An A to Z Recipe for the Earth

Mary McKenna Siddals is the author of a variety of picture books, including the perennial favorite, Millions of Snowflakes, the groundbreaking Compost Stew: An A to Z Recipe for the Earth, and the simply SPOOKtacular Shivery Shades of Halloween. A former teacher, she lives in British Columbia, Canada, where she enjoys being close to nature and spending time with her family, as well as tending to her own batch of Compost Stew.



Visit www.siddals.com for more information.

For additional resources created by educators related to *Compost Stew: An A to Z Recipe for the Earth* check out: www.siddals.com/compost-stew

Agriculture in the Classroom Volunteer Notes

As farmers and individuals involved in agribusiness you may realize that soil health and nutrition is of the utmost importance to those who rely on the earth's resources to provide for their family. *Compost Stew: An A to Z Recipe for the Earth* uses the alphabet and rhyme to introduce to the reading audience how organic material can be returned to the soil through composting and compost practices.

"Composting is the practice of collecting and managing the decomposition of organic material – that is matter derived from living things. The final product, compost, is rich in essential plan nutrients and is often added to gardens." (Books in Bloom – National Gardening Association)

As the land is used to grow crops if the nutrients in the soil are not replaced, the soil will become deficient in key elements such as iron, nitrogen and phosphorus and the crops will fail to grow well.

In addition to the practice of using compost in gardens at home and at school, farmers and gardeners alike can use fertilizers. Row crop farmers (ex. corn, soybeans, wheat) may use a common farming practice known as no-till farming which does not remove plant stalks from their fields allowing the nutrients found in those stalks to return to the soil. Farmers also rotate crops from year to year in their fields so that as one crop may use a specific nutrient from the soil, another may return it.

Sample Talking Points:

- 1. Discuss with the class what farmers in their community do to make sure the soil stays healthy and can successfully grow a crop for human and animal food.
- 2. Farmers use the term "good stewards of the land" when referring to themselves. Explain to the class why that is important to you as a farmer.
- 3. Share some of the people that farmers work with (careers) to make sure that the health of the soil in their fields is well-maintained and even improved from year to year.
- 4. Not all plants and foods are good for composting. Share how some plants (weeds) can actually make the soil unhealthy and farmers and gardeners need to be careful to avoid adding things (seeds) to the soil that could cause long-term damage.
 - a. Ex. an invasive vine or plant (mint, pigweed) that takes over the entire garden or field and takes a lot of work to remove.

Related Lessons and Activities

Search the National Agriculture in the Classroom Curriculum Matrix for these great resources! www.agclassroom.org/teacher/matrix/ or click on the title of each if viewing online.

Visit each of these lesson and activity plans found on the National Agriculture in the Classroom Curriculum Matrix for additional ideas on teaching about *Compost Stew: An A to Z Recipe for the Earth.*

Each lesson plan includes essential files and links, vocabulary, agricultural facts, background agricultural connections, interest approach, procedures for included activities, enriching activities and suggested companion resources:

- <u>The Case of the Missing Pumpkin</u> Grades K-2 Students will investigate the life cycle and decomposition of pumpkins. Includes three activities and time-lapse video of a pumpkin's life.
- <u>People and Plants Need Nutrients</u> Grades K-2
 In this lesson, students will learn that although plants and people obtain nutrients differently, they both need proper amounts of nutrients to grow and be healthy.
- <u>Vermicomposting</u> Grades K-2
 The class will create a worm bin, which will serve as a basis for investigations about ecosystems, life and nutrient cycles, and decomposition. Includes two activities and *Worms at Work*, a 20-day time-lapse video of the inside of a vermicomposting bin.
- <u>Terrariums: A Look at the Living and Nonliving World</u> Grades 3-5
 Students will observe the interactions between living plants and other living and nonliving things in a small terrarium environment. They also will learn about farms and discuss similarities between the terrarium environment and the farm environment.
- <u>The Rotten Truth</u> Grades 3-5
 Students will observe and explain the decomposition process and learn the methods and ingredients for making compost.

Companion Resources

The following resources are available for free download to use as supplemental non-fiction reading to coordinate with the themes in *Compost Stew: An A to Z Recipe for the Earth.*

PreK – 2nd grade

• <u>Farm to Cart</u> from American Farm Bureau Foundation for Agriculture is a printable board game that introduces PreK-Elementary players to the general process for the production of various agricultural products. Players will become aware that farmers use land in different ways to grow crops.

- My American Farm A series of more than 20 online games with coordinating lesson and hands-on activity plans, along with ready-to-print worksheets and puzzles. The games were built for educators, learners and their families and are aligned to national learning standards. The series also offers agricultural-themed e-comics, trivia and polls as well as interesting videos about agriculture. There is no cost or log-in. App version available as well as the full desktop version.
- <u>Under Your Feet Reader</u> from the Nutrients for Life Foundation. This activity reader introduces soil and its role in producing food. Written for grades 1 & 2.

3rd grade +

- <u>Soil Reader (Terra Nova)</u> from Illinois Agriculture in the Classroom. Developed to
 examine agriculture as it relates to Math, Science, Social Studies, Language and Writing.
 A total of 15 commodity readers are available along with coordinating sample student
 questions are available for teachers to print and implement to aid in test preparation
 and are a way to expose students to more non-fiction based texts. Written at a fourth
 grade reading level.
- Ag Today student readers Ag Today is a great reading supplement for upper elementary students to learn about agriculture. The six issues correlate with the themes of the National Agricultural Literacy Outcomes and can be integrated into science, social studies, and language arts curriculum. Each reader provides real-world connections to STEM and makes learning relevant for students in becoming agriculturally literate. Eductor guides available for each issue.

Other:

- *Dig Deeper: Soil Science Society of America* www.soils4kids.org Play fun soil games, experiment with soil and explore careers. Materials available for grades K-12.
- Check out the <u>Soils Overview</u> for a printable version of basic soils information. <u>Major role of soils</u> tells about the major roles that soils play in our lives. There are many soil properties that help us describe and manage soils. Some of the important physical properties are described on the <u>Physical Properties of Soils</u>. Soils can have many different layers. For a description on what soil layers exist, visit the <u>Soil Horizons</u> page.
- Nutrients for Life: www.nutrientsforlife.org Find curriculum, lesson plans and teaching
 resources about soil health and sustainable agriculture practices. Includes lesson and
 activity plans, videos, games and much more.
- CropLife Ambassador Network Crop Life's mission is to provide scientifically based, accurate information to the public regarding the safety and value of American agricultural food production. The site contains lesson and activity plans, coloring pages and web quests. https://ambassador.maca.org/teachers/lesson-units/
- Recycling & Waste Reduction Lessons & Activities from Wake County, NC
 - See Teacher Background Handout
 - See: Composting Elementary Version (7 lessons)

Suggested Reading

Backyard Composting by John Roulac

This book provides an easy, step-by-step guide to successful composting. Learn how easy it is to start composting, maintain an active, healthy compost, and use the compost you produce.

Farmer Will Allen and the Growing Table by Jacqueline Briggs Martin

Will Allen is no ordinary farmer. A former basketball star, he's as tall as a truck, and he can hold a cabbage—or a basketball—in one hand. But what is most special about Farmer Will is that he can see what others can't. When he looked at an abandoned city lot in Milwaukee, he saw a huge table, big enough to feed the whole world. No space? No problem. Poor soil? There's a solution. Need help? Found it. Farmer Will is a genius in solving problems. Jacqueline Briggs Martin tells the inspiring story of an innovator, educator, and community leader.

The Amazing Life Cycle of Plants by Kay Barnham

How do plants grow? Explore the journey from seed to sapling and beyond. Children have lots of questions about the world around them, and this book helps them discover many amazing and wonderful scientific facts about nature. The charming collage-effect illustrations are inspired by farms and scenery that the illustrator sees around her home in New Hampshire. Lively texts engage children and make this book a favorite to return to again and again. There also are Notes to Parents and Teachers at the end to encourage further exploration and learning.

Leaf Litter Critters by Leslie Bulion

Have fun on this poetic tour through the leaf litter layer and dig into the fascinating facts about the tiny critters who live there. Nineteen poems in a variety of verse forms with accompanying science notes take readers on a decomposer safari through the "brown food web," from bacteria through tardigrades and on to rove beetle predators with other busy recyclers inbetween. Glossary, hands-on investigations, and resources are included.

Pumpkin Jack by Will Hubbell

Join Jack in his voyage of discovery as he experiences death, decomposition and rebirth as his jack-o-lantern fades, rots and new plants grow from a seed left inside the pumpkin shell. That seed sprouts and the growth leads to a new crop of pumpkins.

Want to create your own A to Z worksheet or activity using the terms from the book? Copy and paste the list below from the online version of the educator guide found online at infarmbureau.org

Apple cores Nutshells Bananas Oatmeal Coffee grounds Paper Dirt Quarry dust Rye bread Eggshells Fruit Seaweed Grass **Teabags** Hair Underbrush Insects Vegetables Worms Jack-O-Lanterns Xmas trees Scraps Yellow pine Lint Zinnias Mulch

A to I Compost Matching

Directions: Collect a sample of each of the items identified in *Compost Stew: An A to Z Recipe* for the Earth, or items that represent each of the items listed (see suggestions). Place each item in a separate clear container, with or without the lid, for students to identify. Ask students to use the cards found on the following page to identify each of the items by placing the label card in front of the item that can be composted.

Please be mindful that any food item could pose a concern for students with food allergies such as eggshells and nutshells. Other items may irritate outdoor allergies such as grass, mulch and pine.

A to Z Ingredient	Alternative 1
Apple cores	
Banana peel	
Coffee grounds	
Dirt	Crushed chocolate cookies
Eggshells	Plastic eggs
Fruit	
Grass	Artificial grass/turf (can be found at many home improvement stores)
Hair	Clean hairbrush or comb. Synthetic hair extension or accessory (can be found at many Big Box retailers)
Insects	Plastic insects
Jack-O-Lanterns	Plastic pumpkin
Scraps (food)	
Lint	Lint roller OR cotton balls
Mulch	Sharpened pencil shavings
Nutshells	Artificial acorn (potpourri)
Oatmeal	Instant oatmeal
Paper	
Quarry dust	Pea gravel
Rye bread	Salad croutons
Seaweed	Shredded spinach or dark lettuce
Teabags	
Underbrush	Floral moss
Vegetables	
Worms	Gummy worms
Xmas trees	Miniature Christmas trees for winter village scenes.
Yellow pine	Pine tree shaped car air freshener
Zinnias	Artificial flower or Zinnia seed packet

A to Z Compost Matching	Apple cores	Banana peel
Coffee grounds	Dirt	Eggshells
Fruit	Grass	Hair
Insects	Jack-O-Lanterns	Scraps (food)
Lint	Mulch	Nutshells
Oatmeal	Paper	Quarry dust
Rye bread	Seaweed	Teabags
Underbrush	Vegetables	Worms
Xmas trees	Yellow pine	Zinnias

Teacher's key

Q Z G G J W D C Χ S G QG Н Κ Н L Τ Υ C Ρ 0 C Ε Н U C C Ε Α Ν Ρ Α G L Ε Q 0 C 0 Ε G R U S Q Q Ρ Κ ٧ Χ F Ε 0 Ν D W W G Q В Υ R U Т Н U Τ Ζ Ρ Κ Χ C Ν Р U C S C Ζ 1 Q Ν Ν J В G S G S S Α В L S Ε S Н Υ Q R Υ Κ Α Υ Κ Н L В Ζ Ε D G Ε F F G C ٧ D Α D 0 Κ F Τ C Ζ D Χ M Н Z G OJ R Ν R L W Μ Χ W W ٧ U Ι Н C Q U Χ Κ S Χ Τ Α 0 Ε Ε Υ Μ Ν D R W U Μ R В Χ L Υ W 0 Κ U C C C Ρ U Κ Υ Ρ L Ε L Α 1 W Х Ρ 1 0 M Н R Ρ 0 S F Ε 0 K Χ Ε F Ρ 0 J G Ζ D L ٧ 1 W G Ε Ε Z Ν Υ Т Х M X L Υ C 0 S F C G F ٧ Т 7 Τ Ρ Κ Т S Ε 0 M G R Α S D W L Н Ρ Ε Z Ρ Ρ Ε В R Ε Α D S 0 Τ Υ Q F ٧ Μ Κ В Μ R Υ L M Z S Ζ S Q ٧ ٧ G Α F W Α Ε 0 Ζ Α Н Q G 1 C C 0 0 G Ε Ε S Т Α Т Υ 0 0 ٧ 0 Ρ G Ν G ١ U C Q Н Ν Ν L S C 0 Q W Α L 0 G ٧ Ζ Ζ Ζ S Τ F Υ Ζ Ε Ε Ζ G Χ Τ Q Υ Н ٧ ٧ S Α G Ε G W D ı W Α W Ν C 0 Α F F G S Ε Τ U Q J Υ В ٧ Q Q Т Μ W Ε Ζ В C G В R Ε Ε 0 C Ν Ρ Ζ Ε R S Α Χ G L Α D 0 U Α ٧ L Μ Μ Q L L Q Z D K Ζ D Q C D Ε Ν U Т S Н Ε S 0 Ν В Н Q Ν Α D ٧ G Α Ζ Ζ Ρ Ζ Ε ٧ Υ G Χ Ζ ٧ G S ٧ C Ρ Ρ Ρ J L Н U Ε 0 Υ Ρ G C Ν Ν Υ W S C R Α Р S Q Н R Μ Ν J 1 Α Ε D Κ J S S G S Α C G Κ Χ Z Т Μ Χ W R Χ Т L ٧ Ε F R 0 Μ Α S Υ W Κ Ε Н Υ M W Q S U Ε R В R U S Н Н D 0 J Α D J M Ν D Н L В C Μ Α S Т R Ε Ε S R U C G J F ٧ Q C Н В D Н Ρ В R K F В S 0 G 0 Α 0 Ε Ν Τ U Q L Ν Τ Н Ρ Ε 0 Ν L U Χ Ν Q M Χ 0 Τ Ζ Κ S J R M Z 0 D Ζ C Χ Q R F G G U K S S M 0 Ν R S S Ρ В G Χ Χ Χ Υ R Р Τ Υ 0 В Α Ν Α Ν S D Μ Н Ν L В Н C Υ Ρ R Q Q Q В K K Ν ٧ Ε 0 В G Α -Τ Α Н 0 Н W M D В Ζ Χ U Μ U Υ Ζ K Ε Ζ C В Ζ Т Χ Н ٧ W Τ U Q U K Α K W J L D Т Ν Κ Υ D Υ Ρ Α U Τ D S S F 0 Т U L Ρ Α ٧ G 1 C Μ G U G U Κ Q С Ε Ε Κ Α Ζ ٧ L Н

Apple cores
Bananas
Coffee grounds
Dirt
Eggshells
Fruit
Grass

Hair Insects Jack O Lanterns Scraps Lint Mulch Nutshells Oatmeal
Paper
Quarry dust
Rye bread
Seaweed
Teabags
Underbrush

Vegetables Worms Xmas trees Yellow pine Zinnias

lame:	Date:
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A Recipe for the Earth Word Find

G C Χ S G G Т S Ε Ε Н Ε Υ G C Ρ Ε O Ν L 0 C 0 Ε Ε G R 0 U Ν D S Q Q Ρ W Κ ٧ Χ F W G Ρ C S В Υ R U Τ Н U Q Τ Ζ Ρ K Χ C Ν U Ν Ν C Z В S Ε S Q Τ Ε В Α G S G S Κ S Α Н L L 1 Н Υ Κ Υ Ε G Ε F F D D 0 K Υ F Т C Μ Ζ Н Ζ D D G Χ C Ζ G C R R Χ U ١ Н Q U Χ 0 Α Ν L Ε Μ W W ٧ W W S Μ Т Ν D R R В Χ L Υ W 0 Κ Α 0 Ε U W C C C Ρ Ρ 0 Μ Н R Ρ 0 S M Ν U K Ρ Ε ı W Χ Ε Ε F G Ζ D G Ε Ε 0 Κ Χ Χ Ρ 0 L ٧ W Ρ Ε W C 0 Μ 0 G R Α S S D F W C G F ٧ Т Z Т Κ Т L S Ε Ε R Ε Α Υ Q F ٧ Μ Κ В Ζ Ρ Ρ R Υ В Α D S L M Ζ S Q ٧ ٧ G Α F W Α Ε 0 Ζ Α Н Q G 1 Ζ C S C 0 0 G Ε Ε S Т 0 Ρ G S C 0 Q Υ 0 0 ٧ Ν G 1 U C Q Н Ν Ν L W Α 0 V V Ζ S Α Ζ S G Τ Ε G W F Υ D Z Ε Ε Z G Χ Τ W Q Υ C W C 0 Α F F Ε Υ В ٧ Q ı Q Т Ε Z Τ Ν G S Τ Q MU J C Χ G G L D 0 В R Ε Ε ٧ L 0 C Ν Ρ Z Ε Α L U Μ L Q Q Z Т S Ζ C D Ν U Н Ε S 0 Ν K D Н Q Ν Α D Q D ٧ Ε L L В Ζ Ρ G Χ Ζ S Ζ C Ρ Ζ Ρ ٧ J G ٧ 1 Н Υ W S C R Α Ρ S Q Н R M Ν Ε 0 Υ 1 Α Ε D Ρ Κ G S S S G Ζ T Ε F R G Χ M Х W R Т ٧ 0 Ε Α D Υ Μ W Q Μ S U Ν D Ε R В R U S Н Н D Н 0 F C C Χ Μ Α S Τ R Ε Ε S R U C G L J ٧ Q Н В D Н Т U Q L Т Н Ρ Ε 0 Ν U Χ В S 0 G 0 Α 0 Ν Ε Q M 0 Ν Т Ν L R Ζ Ζ C Т Χ Q R F G G Ζ S S S J 0 Ν J R Μ 0 D U Κ Т S S 0 В Ρ В Α Α Ν Α S D M G Н Ν Χ Χ L В Χ Н Υ R Ρ Υ Ν G Υ Н R Q Q Q Α В ı Τ Α Н 0 Н Κ K C Υ W Ρ M N ٧ Ε Ν 0 В В Ζ Х U M U Ζ K Ε Ζ C В Ζ Т Χ Τ U Q U K Ι Υ K W Н ٧ W J 0 Τ L D Τ Ν Κ Υ D Ρ Υ U L Ρ Υ Ρ Α Α U Τ D ٧ G S S Ε L 1 L Ε C Μ G U G U Κ Q C Ε Ρ Κ L Н Ζ ٧

Apple cores
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Grass

Hair Insects Jack O Lanterns Scraps Lint Mulch Nutshells Oatmeal
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Quarry dust
Rye bread
Seaweed
Teabags
Underbrush

Vegetables Worms Xmas trees Yellow pine Zinnias

Garbage Helps Our Garden Grow

Adapted from Illinois AITC Scoop on Soil – Originally created by <u>Wake County Environmental</u> Services, Solid Waste Management Division.

Suggested Reading Materials:

Garbage Helps Our Garden Grow: A Compost Story by Linda Glaser ISBN-13: 9780761349112

Materials Needed:

- One empty and clean water bottle for mini composter
- Soil (can be dug from school grounds or potting soil)
- A handful of food scraps such as orange peels or lettuce leaves chopped into small pieces
- Ruler
- Scissors
- Masking tape

Directions:

- 1. Explain to the students that they will be able to view composting in the classroom on a small scale. Show students the materials collected.
- 2. Using scissors and following the diagram, cut off the top two inches (below the mouth) of the bottle. Save this portion for later.
- 3. Place 1" of soil in the bottom of the bottle. Do not compact the soil.
- 4. Place food scraps on top of the soil and cover with another 1" of soil.
- 5. Using scissors carefully poke 5-7 air holes in the top (cut off) portion of the bottle.
- 6. Use masking tape to secure the two sections of the bottle, being careful not to cover the air holes with tape.
- 7. Place the bottle in a sunny place that is not too hot or too cold.
- Over the next 1-2 weeks, shake the bottle once daily to mix the soil and food scraps, being careful not to spill. This represents the turning that would ordinarily occur in a backyard compost pile and allows air and moisture to circulate through the soil and scraps.
- 9. Discuss with the students what they observe each week. Is the food decomposing? Why or why not?
 - What would happen if the bottle were not shaken?
 - What would happen if there were no air holes in the bottle?
 - Why was the soil added?



Create A Compostable Canvas

Using a wide variety of recyclable materials available have students create their own "compostable" artwork similar to what is seen in Ashley Wolff's illustrations in *Compost Stew*.

Suggested materials:

- Multi-colored tissue paper and other packaging materials (recycled from birthday and Christmas gifts)
- Silk floral petals
- Scrap paper from other in-class art projects
- Newspapers
- Cardboard food boxes and packages (ex. cereal boxes)
- Yarn
- Scrap fabric (ex. Cut socks and other clothing items that have holes in them and can no longer be worn into different sized and shaped pieces)
- Pillow stuffing, cotton, etc.

Optional – Provide a theme for the student's artwork

- Our school garden students create a piece of art that resembles the school or classroom garden
- Create an image of the world from outer space
- Nature park
- Recreate one of the illustrations in the book