

**Waste in Place
Information Packet**

Planning for a Workshop

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**Who Keeps Texas Beautiful?
Educators do.**

Notes

Introduction

Keep Texas Beautiful is providing this booklet to offer information about *Waste in Place*, the hands-on, environmental curriculum from Keep America Beautiful, Inc. Keep Texas Beautiful, a state affiliate of KAB, knows the value of partnerships in stimulating positive attitudes and educating communities about the environment and that education is the foundation for responsible individual action toward the environment. Our partnerships with local schools, youth groups and other community organizations are helping to develop positive attitudes about how litter and solid waste should be handled and, hopefully, to develop a sense of community pride in our children.

The *Waste in Place* curriculum for grades K-8 was originally introduced in 1979 by KAB. *Waste in Place* was the first environmental curriculum approved by the Texas Commission on Environmental Quality (formerly TNRCC) and the Texas Education Agency to meet the requirements of 1991 state legislation mandating that "environmental issues be taught in an interdisciplinary approach in grades kindergarten through 12."

The University of North Texas and Texas Woman's University Education Departments evaluated the curriculum and determined that it is "an excellent hands-on resource and provides a balanced approach to environmental topics." The interactive lessons are adaptable for each grade level, and the University of North Texas has provided the correlations to the Texas Essential Knowledge and Skills (TEKS) for grades K-8.

The materials in this booklet are designed to provide an overview of the *Waste in Place* curriculum including sample agendas and cost estimates. In addition we have provided a sample letter and registration form which are available electronically upon request to make it easier for you to spread the word about *Waste in Place*.

Waste in Place Solid Waste Environmental Education

The *Waste in Place (WIP)* curriculum provides activities designed to develop awareness and knowledge of solid waste problems, which should result in informed decisions by our future community leaders. This unique curriculum for kindergarten through 8th grade addresses the problem of waste and its disposal alternatives and emphasizes responsible solid waste handling practices through hands-on activities targeting educators and students.

Recommended by...

- ✓ National Board of Education
- ✓ National Science Teachers Association
- ✓ National Science Foundation
- ✓ Science for All Americans
- ✓ Project 2061

The WIP curriculum is correlated with the Texas Education Agency's Texas Essential Knowledge and Skills (TEKS). KTB research shows that educators do not have access to solid waste educational materials and training except in Waste in Place.

These recommendations include utility, social responsibility, intrinsic value of knowledge, philosophical value and childhood enrichment.

Changing Attitudes

The curriculum was developed from three years of research and uses a behaviorally based, systematic approach to changing attitudes and practices related to proper solid waste handling. WIP curriculum is presented in such a way as to encourage an attitude change process using the following steps:

- ✓ Get the facts
- ✓ Involve the people
- ✓ Plan systematically
- ✓ Focus on results
- ✓ Provide positive reinforcement

The Workshop

Formal and Non-formal Educators attend a six-hour hands-on workshop. They will earn:

- ✓ Six hours of State Board of Educators continuing professional credits
- ✓ Six hours of Texas Environmental Education Advisory credit toward an environmental education certificate

Workshop Cost

Curriculum, training fees and travel for 15-30 educators:

Total estimate..... \$750-\$1,615

How To Get Started

For more information about this program please contact KTB at 1-800-CLEAN-TX.

Texas Essential Knowledge and Skills *Waste in Place*

Overview

The chart below is a quick overview of the correlation of the *Waste in Place* curriculum with the Texas Essential Knowledge and Skills. A more detailed version of the correlations is provided to participants in the 6-hour workshops.

SUBJECT	Grade Level	Lang Arts	Math	Science	Social Studies	Health	PE	Fine Arts	Tech
TEKS Number		110	111	112	113	115	116	117	126
Litter Prevention									
1. Litter Bag	K-6	X		X	X				
2. Litter Literature	K-6	X						XTHEATRE	
3. Good Habits	K-2				X			XTHEATRE	
4. Keep It Beautiful	K-2			X	X				
5. Litter Lyrics	K-8	X			X			XMUSIC	
6. Walk the Talk	3-8		X		X				
Understanding Waste Management									
1. What is Waste?	3-8	X			X				
2. A Trashy Story: City XYZ	3-8	X			X				
3. The Integrated Approach	3-8				X				
4. Garbage Pizza	3-8		X		X				
5. Timely Trash	3-8	X			X				
6. Let's Be Vocal	K-5	X			X				
Waste Reduction									
1. Charting the Course	2-5		X		X				
2. Pack It In	2-4	X							
3. Peas in a Pod	K-3		X						
Recycling/Composting									
1. What's a MRF	K-5			X	X				
2. Plastics by the Number	3-8		X	X	X				
3. Tin Can Papermaking	3-5			X				XART	
4. A Little R and R	K-3				X		X		
5. Turn Over a New Leaf	K-5			X					
Waste-to-Energy/Landfill									
1. The Heat is on	3-5		X	X					
2. The Layered Look	3-8			X				XART	
Enrichment									
1. Lingo Bingo	1-5	X			X				

**Full correlations are provided at training.

Texas Essential Knowledge and Skills (TEKS) correlation completed in partnership with University of North Texas, Texas Woman's University, and Keep Texas Beautiful.

Sample Agenda

Welcome and Introductions

Activity: Trash Trivia (*Visit to a Triple R Ranch Texas supplement*)

Who are Keep America Beautiful and Keep Texas Beautiful?

Goals and Objectives

To help understand issues related to MSW (Municipal Solid Waste)

To teach activities for use in your classroom

Activity: A Trashy Story – City XYZ *page 41*

Break

Activity: Litter Bag *page 3*

Activity: Walk the Talk *page 15* and Tip Sheet *page 2*

Activity: Pack It In *page 57*

Activity: Logos and Slogans (*Handout*)

Activity: How We Manage Garbage – Overview (pages 17-38)

Lunch

Station Activity: Garbage Pizza *page 45*

Station Activity: Plastic by the Numbers *page 65*

Station Activity: Making Paper *page 71*

Break

Activity: Litter Literature *page 5*

Activity: Timely Trash *page 49*

Keep Texas Beautiful Awards

Earth – The Apple of Our Eye

**All page numbers correspond with the Waste in Place manual.*

Materials and Space Requirements

*These items are to be collected by the organizing/host group prior to the workshop.
The materials will be used to create kits to implement WIP activities after the training.*

TRAINING SUPPLIES

LITTER BAGS (*Waste in Place curriculum page 3*) At least 1 bag per 6 attendees
Paper sack with aluminum can, string, orange peel, cigarette butt, straw, snack/chip sack, glass bottle

GARBAGE PIZZA (*Waste in Place curriculum page 45*)

- 1 pizza crust as per instructions or 1 pre-made 12" crust or 1 12" cardboard cake circle or pie plates
- (1 pizza per 6-8 attending)
glue mixed with red food coloring (works best to add coloring to bottle and then squeeze into empty bottle)
- 5-6 1" to 2" paint brushes
- Toppings:
 - Paper:** hole punches, color bits, newspaper
 - Yard:** twigs, leaves, pine chips, potpourri
 - Plastic:** bread clips, jug lids, mini-toys, flatware or plate pieces
 - Metal:** paper clips, nails, screws, pop tops
 - Wood:** tooth pick, building blocks, cedar chips, cedar closet balls, golf tees
 - Food:** pretzels, crackers, pasta, cookie sprinkles (adds color)hard dry food
 - Glass:** marbles, broken windshield or safety glass (free from salvage yard) small mirrors, glass craft beads
 - Other:** rubber bands, candles, leather, ribbon, textiles, combo items like plastic cover paper clips

PAPER MAKING (*Waste in Place curriculum page 71*)

- Blender
- Access to water or several gallons of water
- Stack of cloth or paper towels
- 25 sheets used notebook paper
- Large clear plastic container at least 6 inches deep
- Plastic craft hoops with plastic window screen cut to fit inside the hoop i.e. larger than hoop and secured inside the hoop
- 2 large coffee cans
- 2 pieces plastic window screen larger than coffee can
- 2 sponges

PLASTIC BY THE NUMBERS (*Waste in Place* curriculum page 65)

- 3 sets (3 of each) of clean samples of all seven numbered plastics. Items listed by the number are samples only and the number on the container should be checked to insure that plastic with each number are collected. Numbers are typically located on the bottom of the container or side of the container near the bottom.

- 1 – soft drink bottles, juice containers, peanut butter
- 2 – milk jugs, grocery sacks
- 3 – auto care such as motor oil, shampoo, medicine
- 4 – honey, mustard, lids to other containers, soap scoop
- 5 – sour cream, medicine, drink cups
- 6 – yogurt, egg carton, drink cups
- 7 – catsup, microwaveable dishes, pudding

- Flip chart and assorted sets of markers (3 sets of colors, extra black and blue)

LITTER LITERATURE (*Waste in Place* curriculum page 5)

Purchase The Wartville Wizard by Don Madden (\$7). The book may be ordered from a bookstore or from Amazon.com or similar on-line bookstore

ROOM SETUP AND ON-SITE NEEDS

- LCD projector
- TV/VCR
- One 8' table in front of room for supplies
- Three 8' tables in back of room or in another room to activities
- Extension cord
- Access to water (as noted above for making paper.) 2-3 large pictures of water and water already in clear plastic container

ADDITIONAL NOTES

- Prefer seats arranged at tables so that trainers may move between tables.
- Books will be distributed as part of training. Do not place on tables.
- Please feel free to place other items at the participant's seats.
- Prefer lunch served on-site so that training may continue quickly and actually end early (teachers appreciate the time).

Check with trainer for specific needs.

Sample Letter

«Date Of Letter»

«Recipient Name»

«Recipient Title»

«Recipient Address»

«Recipient City», «Recipient_State_2» «Recipient_Zip_10»

Dear «Salutation»:

Education is the foundation for responsible individual action toward the environment. Keep America Beautiful (KAB) and Keep Texas Beautiful (KTB), a state affiliate of KAB, know the value of partnerships in stimulating positive attitudes and educating communities about the environment. The Keep America Beautiful program focuses on litter prevention, beautification, community improvement and solid waste management. By forging partnerships between the public, private and civic sectors, KAB and KTB strive to change attitudes about these items. Our partnerships with local schools are helping to develop positive attitudes about how litter and solid waste should be handled and, hopefully, to develop a sense of community pride in our children.

There are many ways that a partnership will benefit your school, organization, and youth. One way is through the use of the *Waste in Place* curriculum for grades K-8. The curriculum was originally introduced in 1979 by KAB. *Waste in Place* was the first environmental curriculum approved by the Texas Commission on Environmental Quality (formerly TNRCC) and the Texas Education Agency to meet the requirements of 1991 state legislation mandating that "environmental issues be taught in an interdisciplinary approach in grades kindergarten through 12."

The University of North Texas and Texas Woman's University Education Departments evaluated the curriculum and determined that it is "an excellent hands-on resource and provides a balanced approach to environmental topics." The interactive lessons are adaptable for each grade level. "The workshops received high marks in all areas evaluated, and the curriculum provides teachers with the resource tools they need to prepare students to deal with these complex and important local, state and national issues," stated Dr. Linda Schertz, University of North Texas Professor of Education.

Last year more than 2,500 teachers received training in the use of *Waste in Place*. Approximately 200 attended trainings funded through an environmental education grant from the Environmental Protection Agency. Local school districts, affiliates, Councils of Government and private foundations have funded workshops. We hope your school and organization will join our partnership and help us in achieving our mission, "to empower Texans through education to take responsibility for enhancing their community environment."

If you need additional information regarding *Waste in Place* please contact Laura Turner, KTB Programs and Youth Coordinator at 1-800-CLEAN-TX.

Regards,

«Name»

Sample Workshop Flyer

WASTE IN PLACE TRAINING

Keep Texas Beautiful in partnership with **<organization name>** will conduct workshops in Texas to teachers and youth leaders on one of America's most popular environmental education curricula. The citizens and officials who will make tomorrow's decisions about the environment are in your classroom right now. It's crucial that they understand environmental issues and how communities manage waste.

Waste in Place (WIP), Keep America Beautiful's interdisciplinary curriculum, has been created and field-tested by professional educators. Educators use it to teach fun, hands-on activities that develop students' awareness and knowledge of solid waste and the environment. In 1991-92, *WIP* was the first interdisciplinary environmental curriculum approved by the Texas Commission on Environmental Quality (then the Texas Water Commission) and the Texas Education Agency.

Waste in Place has more than 24 lesson plans that teach students about preventing litter, recycling, and methods to manage trash. Lessons encourage critical thinking and process skills. Each lesson has a defined objective and a list of materials needed.

KTB provides:

- ✓ Trainer
- ✓ Curriculum
- ✓ Educational materials

Sites will:

- ✓ Arrange meeting space
- ✓ Invite educators and youth leaders (minimum **20** participants required)
- ✓ Arrange lunch for the participants
- ✓ Collect items for the workshops that will become local kits. (Detailed list provided upon request)

- Workshop has a 92% approval rating from participants
- Workstations take participants through "hands-on" lesson plan activities
- Lessons may be integrated into all subjects
- Qualifies for Continuing Education Units (State Board of Educator Certification approved) and 6 hours of credit toward environmental certification (Texas Environmental Education Advisory Committee credit)

WASTE IN PLACE Training Response Form					
Name _____		Grade Level _____			
School _____					
	<input type="checkbox"/> Home <input type="checkbox"/> School				
Address _____					
City _____	State _____	TX _____	Zip _____		
Phone _____	Fax _____				
E-Mail _____					
Payment Enclosed	<input type="checkbox"/> Check <input type="checkbox"/> Visa <input type="checkbox"/> Mastercard <input type="checkbox"/> American Express				

Mail this form to: <<Name and Address of organization>>

Press Release

«Contact's Name»

«Contact's phone number»

FOR IMMEDIATE RELEASE

«Community Name» To Train Teachers On Popular Environmental Education Curriculum

«Community City», «PR Mail Date» -- Today's students are tomorrow's decision-makers. And to help them make informed environmental choices, teachers here will be trained to use one of the country's most popular environmental education curricula provided by «Community Name».

Teachers from local schools will be participating in a full-day training institute in Keep America Beautiful, Inc.'s *Waste in Place* on «Workshop Date» at «Workshop Location».

During the forum, teachers will learn about environmental topics ranging from litter prevention to waste management systems. They will then use *Waste in Place* in their classrooms to increase students' understanding of waste and how communities can manage it effectively and safely. "This is a marvelous opportunity for teachers to become environmental educators. With today's students more interested in their environment and more willing than ever before to accept personal responsibility, it's crucial that we provide them with the understanding that managing waste is not a unsolvable problem - there are options available that will serve communities for generations to come," said «Contact's Name», «Contact's Title», of «Organization Name».

Thousands of teachers nationwide have already been trained to use Keep America Beautiful curricula, and over a million students learn from its hands-on lesson plans every school year. Professional Keep America Beautiful, Inc. trainers lead these workshops.

Keep Texas Beautiful, Inc., a non-profit organization and state affiliate of Keep America Beautiful, has more than 330 affiliates. The network of local and county affiliate programs educates individuals about litter prevention and ways to reduce, reuse, recycle and properly manage waste materials. Through partnerships and strategic alliances with citizens, businesses and government, Keep Texas Beautiful's programs motivate millions of volunteers annually to clean up, beautify and improve their neighborhoods, thereby creating healthier, safer and more livable community environments. Teachers will receive credits toward an environmental certification and continuing professional education credits by attending the workshop.

###

Workshop Estimate

Travel:	
Based on Texas Comptroller mileage chart and \$.35 per mile depending on trainer availability	\$35-185
Lodging:	
Depending on trainer travel and often donated by local business.	
Reimbursement based on receipts.	\$0-85
Meals:	
2-3 meals depending on travel and often provided by local business or volunteers. Reimbursement based on receipts.	\$0-35
Workshop meal and snacks for participants	\$0-240
Supplies:	
Materials such as apples, pizza circles, or other consumable items used in training (varies by agenda)	
Reimbursement based on receipts.	\$20-50
Training Fees:	
Base fee	\$275
Additional travel or extra preparation at \$25 per hour	\$0-100
Curriculum:	
15-30 participants @ \$25 each	\$375-750*
Total Estimated Cost	\$750-1,720

Notes: This represents a general estimate as of April 2005, and may be subject to change based on trainer availability. Lodging, meals and supplies will vary depending on location and need. We recommend providing lunch during the workshop. This keeps everyone together and offers an opportunity to complete the workshop in less time overall. The lunch may be a brown-bag or potluck. Donations may reduce or eliminate the costs for lodging, meals and supplies.

*Keep America Beautiful recommends that each participant receive a copy of the curriculum, because experience is that educators are more likely to use the material if they have a copy. Curriculum cost includes shipping from Keep America Beautiful in Stamford, CT. Workshop participation varies from 15-30 and may include teachers, non-formal educators, community volunteers, and youth leaders. Some organizations add \$25-\$50 per teacher to cover either the expense for a substitute teacher or a stipend for supplies and materials.

Workshop Planning Checklist

Before the workshop:

- Request permission from your school district or organization to host a workshop.
- Identify possible training date, time and location set.
- Call 1-800-CLEAN-TX to determine if a trainer will be available.
- Provide confirmation letter to site location.
- Contact trainer as soon as identified by KTB. Provide trainer with confirmation letter to trainer including date, time, location, site contact, etc.
- Contact KTB/KAB Local Affiliates, if applicable.
- Order *Waste in Place* manuals (6-8 weeks prior to workshop date).
- Develop and distribute promotional materials such as pre-registration form/flyer, posters, and press releases 6 weeks in advance and at least 4 weeks prior to the workshop.
- Send confirmation letter/email and map to advance registrants 10-14 days in advance. (Keep list for future mailings.)
- Collect supplies and equipment outlined on pages 7 and 8 of this booklet or as requested by trainer.
- Arrange for coffee and rolls, refreshments, snacks, lunch, and/or dinner.
- Coordinate arrangements and needs with contact person at workshop site.
- Reserve audio-visual equipment.
- Arrange to have volunteers to assist with set-up, registration and clean up.
- Check on arrival of *Waste in Place* manuals for distribution at workshop.
- Prepare handouts if requested by trainer.
- Know how to reach workshop site contact.

At the workshop:

- Arrive 2 hours early. Participants always arrive 30 minutes to 1 hour early.
- Check room arrangement or arrange room as noted in this booklet.
- Working with trainer, set up work space and activity centers including supplies for activities.
- Check that all equipment is working properly.
- Set up registration table with registration sign in list, name tags, and agendas.
- Set out morning refreshments.
- Prepare lunch or confirm delivery.
- Gather belongings and clean the facility.

After the workshop:

- Send thank you notes.
- Follow up with educator about the use of the curriculum.

Response Form

Please complete the information below.

Name	_____				
Company	_____				
Address	_____				
City	_____	State	TX	Zip	_____
Phone	_____	Fax	_____		
E-Mail	_____				

Please indicate your areas of interest by checking the appropriate box.

- I have read the requirements and would like to hold a Waste in Place training in my community.
- I would like information on the Keep Texas Beautiful Youth Patch Program
- I would like information on Youth Environmental Stewards (YES!) Membership
- I would like information on the Environmental Education educator toolkit
- I would like information on the Green Apple Newsletter (for enviro-smart kids)
- Other:

Return this form to:

**Keep Texas Beautiful
1524 S. I-H 35 Suite 150
Austin, Texas 78704**

FAX: 512-478-2640

Questions? 1-800-CLEAN-TX