#### STEM #TCDProjectChallenge Instructions:

- 1. Read through the Lesson Plan
- 2. Complete the challenge
- 3. Fill out the Lesson Worksheet
- 4. Take a picture during some part of your Challenge
- 5. Email your challenge picture and a picture of the front and back of your completed Lesson Worksheet to <u>pmaddy@ksu.edu</u> or text it to785-877-7262.
- 6. Challenge pictures will be posted (not the worksheet pictures) on our respective county 4-H Facebook pages and our Twin Creeks District Facebook page.
- 7. Your name will be entered into a drawing for a project prize that will be given at our 2020 Achievement Banquet next fall.
- 8. Each time you complete a challenge, your name will be entered into a drawing for that project area.
- 9. You can complete any and all challenges, even if you are not enrolled in 4-H.
- 10. Challenges are divided into three age groups -- 7 to 9, 10 to 13, and 14 and up.
- 11. Pictures of your challenge and lesson worksheets are due by the last day of the month, November 30, 2019.
- 12. Printed copies of the challenge can be picked up at your local Extension Office.
- Do not hesitate to contact me if you have any questions (<u>pmaddy@ksu.edu</u> or 785 -877-5755 or 785-877-7262). I am excited to see your pictures and what you learn through these challenges.

<u>STEM:</u> Reduce, Reuse, Recycle America Recycles Day (Self-Determined Project)

Age 7 to 9: Complete #1 to 5

Age 10 to 13: *Complete #1 to 6* 

Age 14 & up: Complete #1 to 7

**<u>Time:</u>** 15 Minutes/Day

<u>Goal:</u> Identify and recycle items in your home trash. Cut amount of trash in your home by recycling.

**<u>Self-Evaluation BEFORE:</u>** Using the rating scale below, answer the following statements:

1 = not at all2 = a little3 = a lot.

#### I know how to...

Identify materials that can be recycled in my community .....1 - 2 - 3

Sort recycled materials.....1 - 2 - 3 Complete a bar graph......1 - 2 - 3

#### Ingredients/Materials:

Bathroom Scale

6 Containers for Recycled Materials (can be boxes, bins, totes, etc.)

# KIDS TO DO

## **#TCDProjectChallenge**

#### Instructions:

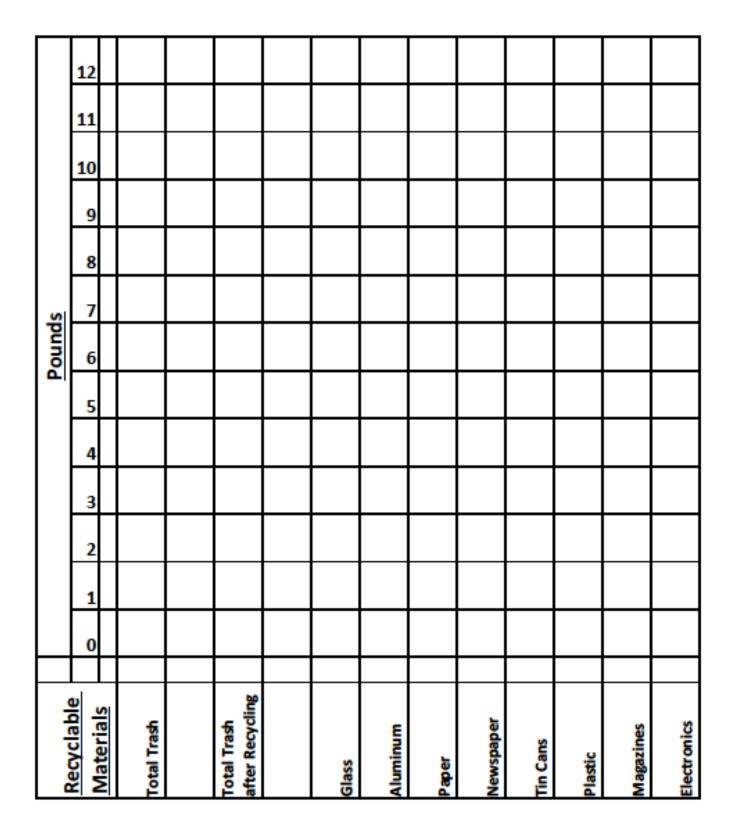
- Check out your local recycling center to see what types of items can be recycled in your area. Star or highlight those materials in the attached charts.
- Weigh your family's trash from your bedrooms, living room, and kitchen, etc. Illustrate that weight with a bar in the first column of the Day 1 chart.
- 3. Sort the recyclable items in your trash according to each type of recyclable material.
- 4. Weigh each container of recyclable material and illustrate each weight with a bar in the appropriate column of the chart.
- 5. Weigh your trash bag again. Illustrate the weight with a bar in the second column of the Day 1 chart. How many pounds of trash did you just save from the local landfill (pounds of total trash minus pounds of recyclable items?
- 6. For ages 10 to 13, repeat for 3 days.
- 7. For ages 14+, repeat for 5 days.
- 8. For Ages 10 to 13 and 14 & up, complete the Totals chart by adding the amount of pounds of trash for the 3 or 5 days and graphing it on the last bar chart to see the impact that your family could have on the amount of trash that goes to the landfill if you practiced recycling. See if you are able to cut your trash by 75%!

#### Did You Know?

Did you know the average American produces almost 5 pounds of waste <u>every single day</u>! That means in just 10 days, we're creating a whole 50 pound feed sack's weight of waste! The good news? Statistics show 75% of that waste is actually recyclable (epa.gov). Can you cut your trash by 75% by recycling? Take the challenge above to find out!

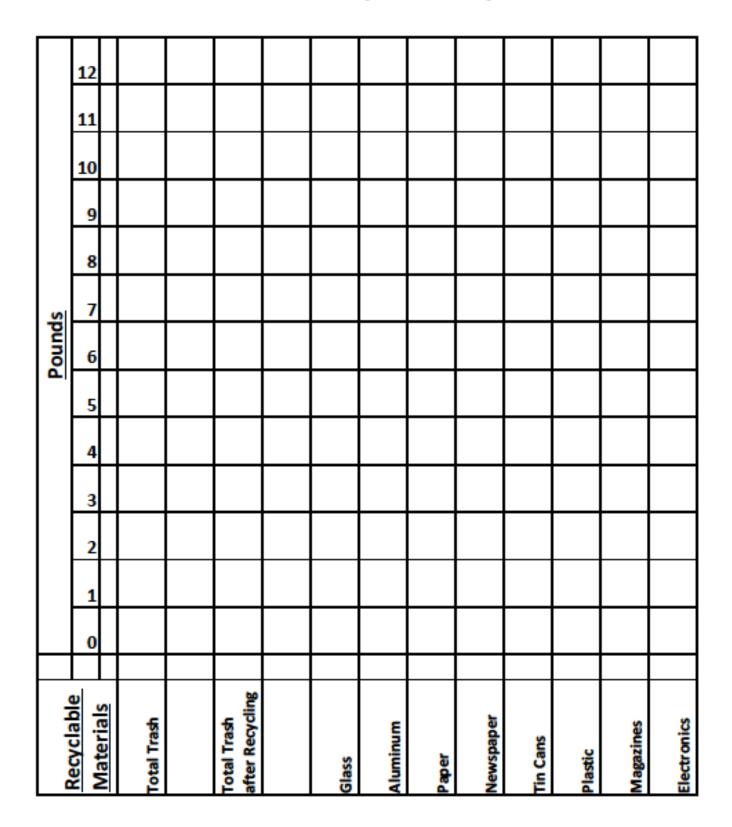
Celebrate America Recycles Day on November 15th!

<b>STEM:</b> America Recycles Day Life Skills Learned: (Check all that apply.)	#TCDProjectChallenge
Positive Self-Concept	Evaluation: (express your experience)
<ul><li>Inquiring Mind</li><li>Concern for Community</li></ul>	Why is recycling important in our communities?
<ul> <li>Sound Decision-Making</li> <li>Healthy Interpersonal Relationships</li> </ul>	What types of items can be recycled at your local center?
Leadership (teaching someone what you have learned — Int./Sr. levels.).	How will you encourage others to recycle in your community?
Taught lesson to other 4-Hers Taught lesson to classmates	<b><u>Citizenship</u></b> : (Community service examples of sharing what you learned.):
Other	Create easy-to-read flyers showing how to recycle in your community.
	Organize a gently-used coat or toy drive to donate to families in your community and help keep coats and toys from the landfill.
	Other
Self-Evaluation AFTER: Using the rating scale below, answer the following statements: 1 = not at all 2 = a little 3 = a lot. I know how to Identify materials that can be recycled in my community 1 - 2 - Sort recycled materials1 - 2 - Complete a bar graph1 - 2 -	(Picture of your participation in the challenge.) 3 3
	Member's Signature Date
<u>Resources:</u> Adapted from:	Patsy L. Maddy, 4-H Youth Development Agent Jenilee Godsey, Youth Ag - Alyssa Rippe-May, Livestock/Horticulture
Recycling, Green Awareness, Blackford County 4-H, Pennsylvania	Keith VanSkike, Ag & Natural Resources       -       Karen Shepard, FCS         Stacy Brown, Director & FCS         Kestate       Twin Creeks         Research and Extension       District
	Kansas State University is committed to making its services, activities and programs accessible to all participants. If you have special requirements due to a physical, vision, or hearing disability, contact Twin Creeks Extension District, 785-877-5755. Kansas State University Agricultural Experiment Station and Cooperative Extension Service
	K-State Research and Extension is an equal opportunity provider and employer.



## America Recycles - Day 1

Use a different color for each column to easily see the amount of trash that can be recycled each day.



#### Use a different color for each column to easily see the amount of trash that can be recycled each day.

### America Recycles - Day 2

12 11 10 9 8 7 Pounds 6 5 4 3 2 1 0 Recyclable after Recycling <u>Materials</u> **Fotal Trash Total Trash** Newspaper Electronics Magazines Aluminum Tin Cans Plastic Paper Glass

> Use a different color for each column to easily see the amount of trash that can be recycled each day.

## America Recycles - Day 3

52 48 44 40 36 32 Pounds 28 24 20 16 12 8 4 after Recycling Recyclable Materials **Fotal Trash** Newspaper Total Trash Electronics Aluminum Magazines Tin Cans Plastic Glass Paper

#### Use a different color for each column to easily see the amount of trash that can be recycled each day.

## America Recycles - Totals