THE EARTH CLUB A MATH PROJECT

In this project students will work with the various aspects of participating in a school Earth Club! Math skills include:

- Graphing and Data Interpretation
- Multi-Digit Operations
- Fractions
- Elapsed Time
- Problem-Solving
- Money

and more!



CREATED BY SHELLEY GRAY

ABOUT THIS RESOURCE

Are you looking for a way to reinforce math concepts in an engaging way that helps your students make connections? "The Earth Club" is a **real-life math project** where students will complete eleven different math-related tasks.

These activities can be used as a package, or in isolation. They work great as a math center, small-group lesson, early finisher activity, or partner activity. This particular project is great for the month surrounding Earth Day.

Take a look at what you'll find inside this math project:

TASK #1: EARTH DAY FACTS

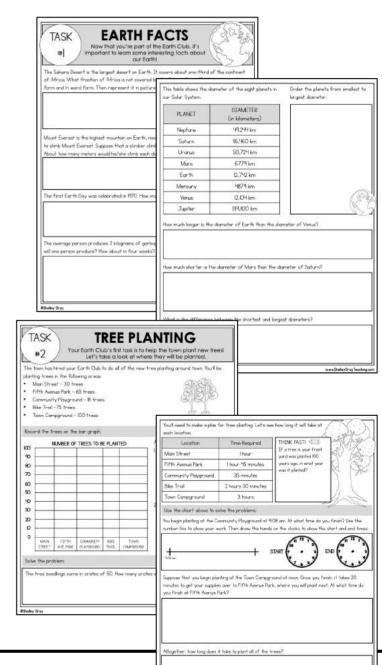
Now that you're part of the Earth Club, it's important to learn some interesting facts about our Earth!

Skills: problem-solving, fractions, multiplication, division, subtraction, comparing & ordering

TASK#2: TREE PLANTING

Your Earth Club's first task is to help the town plant new trees! Let's take a look at where they will be planted.

Skills: bar graphs, data interpretation, elapsed time



TASK #3: BUTTERFLY GARDEN

Your second project is to build a butterfly garden! It will be an amazing habitat to attract butterflies. Let's figure out the total cost of the plants and accessories that we'll put in the butterfly garden.

Skills: money, addition, subtraction, multiplication

TASK#4: RECYCLING CHALLENGE

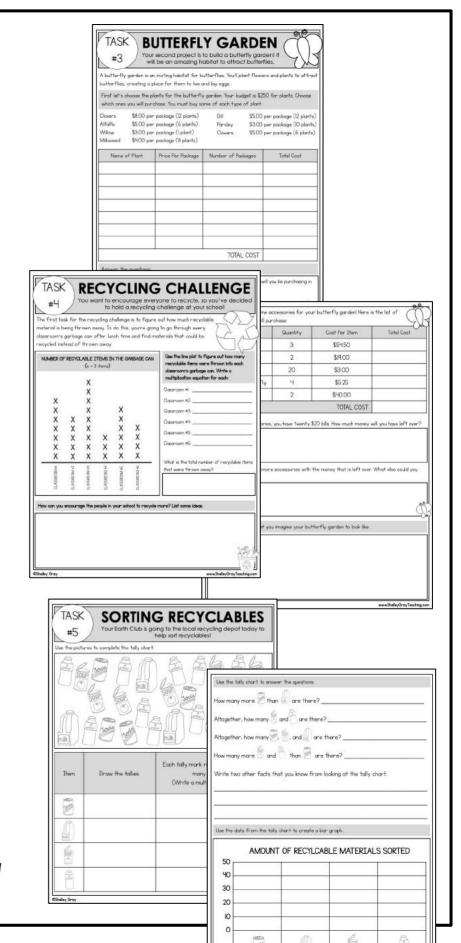
You want to encourage everyone to recycle, so you've decided to hold a recycling challenge at your school! Let's take a look at the line plot to see how many recylceable items are being thrown away.

Skills: line plot, interpreting data

TASK#5: SORTING RECYCLEABLES

Your Earth Club is going to the local recycling depot today to help sort recyclables! Use the pictures to complete the tally chart and then multiply to find the total number of items.

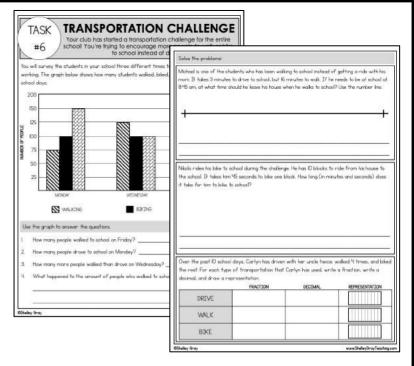
Skills: tally charts, multiplication, transferring data



TASK #6: TRANSPORTATION CHALLENGE

Your club has started a transportation challenge for the entire school! You're trying to encourage more people to walk or bike to school instead of driving.

Skills: bar graphs, interpreting data, number lines, fractions, decimals



TASK #7: PLASTIC BAG COLLECTION

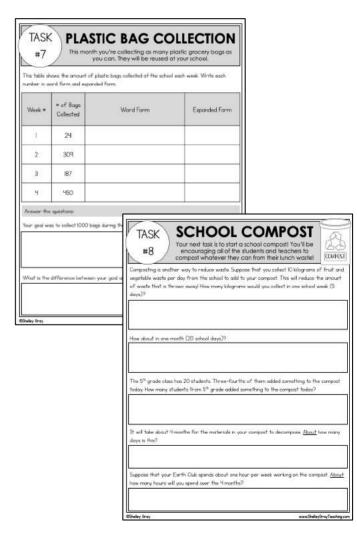
This month you're collecting as many plastic grocery bags as you can. They will be reused at your school.

Skills: expanded form, word form, problemsolving

TASK #8: SCHOOL COMPOST

Your next task is to start a school compost! You'll be encouraging all of the students and teachers to compost whatever they can from their lunch waste!

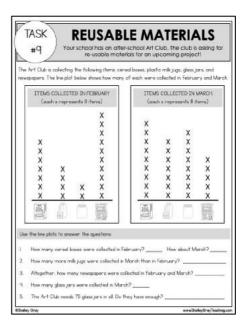
Skills: problem-solving



TASK #9: REUSABLE MATERIALS

Your school has an after-school Art Club. The club is asking for re-usable materials for an upcoming project!

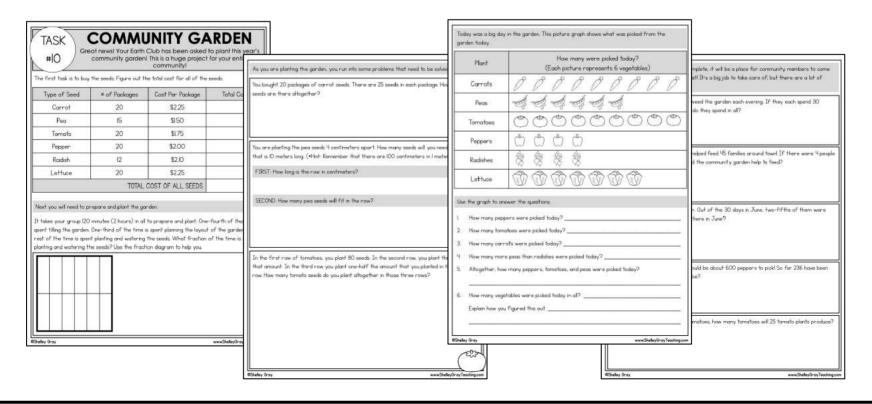
Skills: line plots, comparing data



TASK #10: COMMUNITY GARDEN

Great news! Your Earth Club has been asked to plant this year's community garden! This is a huge project for your entire community!

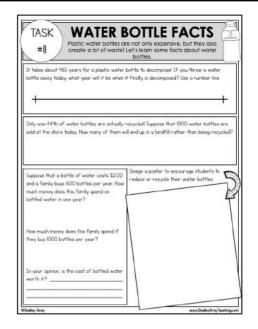
Skills: money, addition, multiplication, subtraction, fractions, problem-solving, picture graphs



TASK #11: WATER BOTTLE FACTS

Plastic water bottles are not only expensive, but they also create a lot of waste! Let's learn some facts about water bottles.

Skills: problem-solving



PLUS TWO BONUS WRITING ACTIVITIES to use at the beginning and end of the project



ANSWER KEYS ARE INCLUDED TO MAKE SELF-CHECKING SIMPLE.

WAYS TO USE MATH PROJECTS IN YOUR CLASSROOM:

Math projects are an ideal way to consolidate learning. I recommend using them as an engaging activity AFTER skills have been learned rather than during learning. You will likely find that engagement is very high and that your students ask to do more of these!

There are many ways to use math projects in your classroom. Some of the most popular are:

- a small-group or pairs activity
- a guided math activity to allow you to see where your students are struggling
- a fun, rewarding way to engage your early finishers
- a low-prep, easy-to-implement activity for a substitute teacher

Enjoy!

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