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Color version

Waste Management System Unit

By
Christa Joy
Special Needs for Special Kids





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Also included in this resource as separate files:

- Lesson plans
- · Links and directions to digital activities
- PowerPoint (this is the book in the lesson plan)
- · Voice recorded PowerPoint
- · Activities in black and white

This unit contains over 200 pages of material. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

It comes in 2 separate files. One in color and one in black and white.

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Waste Management Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit
 - o Laminate or place in page protector.
- Book
 - o Print out, laminate, and bind
 - o OR your students can listen to the pre-recorded version
- Vocabulary cards
 - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and one for the teacher to use in 1 Spy games
- Bingo cards
 - This unit comes with a set of Bingo cards.
 - o They are in color and BW
 - Print on cardstock and laminate.
 - Suggestions for use included in unit.

Preassessment (do day 1 before starting lesson)

- . Choose the form of the assessment that best fits the learning level of your students
- . Give the assessment to assess what your students may already know
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

- Color Coding: this is a really easy way to add more structure to a matching activity. Outline or color in an empty box or sorting label. Outline or color in the corresponding picture symbols the same colors. Becomes a color matching task.
 - a. For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/



Quick Look

Day	Activity	Day	
Ī	 Book Vocab cards activity Circle map 	7	 Book Vocab cards activity Writing prompt
2	 Book Vocab cards activity Sorting activity 	8	Book Vocabulary cut and past Sudoku puzzle
3	 Book Vocab cards activity Sequencing activity 	9	Book Vocabulary cut and Word search
4	 Book Vocab cards activity Venn diagram 	10	Book Vocab cards activity Close worksheet
5	 Book Vocab cards activity Circle map 	11	Book Vocab cards activity Close worksheet
6	 Book Vocab cards activity Sorting activity 	12	Assessment

The lesson plans contain:

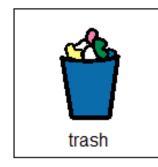
A quick look at what you will do each day

Day 4

Activity	Notes	Materials
Read or listen to a recording of the book: Solid Waste Management (15 minutes)	 Read through the story, asking lots of questions Continue to make connections between book and vocabulary board 	Book Vocabulary board
Vocabulary cards <mark>Scavenger Hunt</mark> (10 minutes)	Place one set of the vocabulary cards around the room before lesson o Students walk around and find them, bring them back and matching them to their own set of cards	Vocabulary cards (extr sets)
Sequencing review (5 minutes)	Review the sequencing activity completed yesterday	Circle n complete yesterday
Venn Diagram activity (10 minutes)	 Students will complete the Venn Diagram comparing a landfill to an incineration plant A color-coded version is provided. Make connections to the book as necessary 	Worksheet Scissors Glue
Sharing (10 minutes)	Each student shares their Venn Diagrams with the group using the communication method of their choice	 Completed worksheets Communication devices

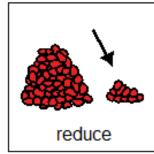
The lesson plans contain:

Detailed instructions on how that day's lesson should run













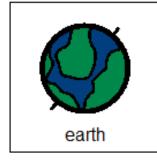


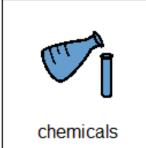


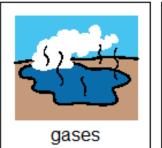


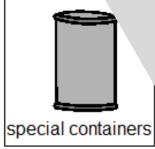


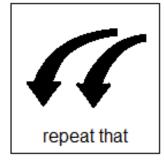


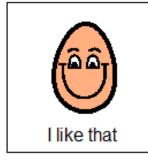


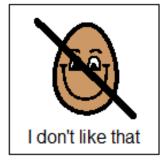
















This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

The overall goal of the waste management system is to handle and dispose of the trash so that it will have as small an impact on the environment as possible.



There are two books with this unit using simple text and photos. This one is an overview of solid waste management.

Another way solid waste is handled is through incineration. This is when the trash is destroyed by burning it.





Both come in pdf versions as well as a voice-recorded powerpoints (so you don't have to print it out.)



As a general rule, not only is hazardous waste dangerous, it also takes a long time to get out of the environment. It can damage an area for hundreds of years.



This one addresses hazardous waste.

Both come in pdf versions as well as a voice-recorded powerpoints (so you don't have to print it out.)

Finally, what about in your very own home? Things like of computers and televisions, batteries, paint, fluids from cars, and different types of oil can be very hazardous to the environment.



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waste management system

Collection, transportation, processing and disposal of material.



Pollution Prevention Act

Passed in 1990, if focused on making changes to how something was made to reduce waste rather than recycling.





source reduction

Effort to decrease the amount of waste created by changing how something is made.



landfill

A place to dispose of waste material by burying it and covering it over with dirt.



quarry

A large, deep pit, from which stone or other materials are or have been removed.



incineration

Getting rid of waste material by burning it.





methane

Dangerous gas produced wh breaks down in a landfix



composting

Getting rid of trash that is food or paper by letting it break down and then used for fertilizer.

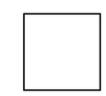


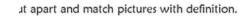
Included are suggestions for group activities to do with these each day.

waste management system Collection, transportation, processing and disposal of material. Pollution Prevention Act Passed in 1990, if focused on making changes to how something was made to reduce waste rather than recycling.



Effort to decrease the amount of waste created by changing how something is made.





landfill

A place to dispose of waste material by burying it and covering it over with dirt.

















made.











recycling





Cut apart and match definition with p

recycling.

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22		
		1

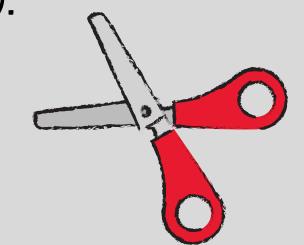
organic waste



hazardous waste

Waste materials that can hurt the environment and stay around for a very long time.	A
Collection, transportation, processing and disposal of material.	The prac
Something that is formed while the main product is created.	Getting rid paper by letti then use
Ways to use waste materials as a resource as in composting and	Effort to decrease the created by changing a

On days 8&9 there is an activity where students will match either the picture to the definition or the definition to the picture (harder).



Bingo cards

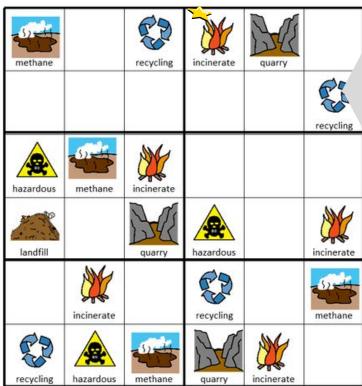


- · Included are 10 Bingo cards in color and 10 Bingo cards in BW.
- · Place the cards in page protectors or laminate for long term use.
- · This is a great way to practice the new vocabulary included in this unit.
- Cut apart a set of the vocabulary cards to use as the calling cards.
- Options:
 - · Show students the picture for them to match
 - Read the definition and see if students can find the matching picture
 - · Work as teams
 - · Vary the "winning" patterns.
 - · Cover all
 - Cover corners
 - · Row across or down
 - · Cover the edges
 - · Vary the ways to mark the card
 - Place in page protector or laminate and use dry erase mark
 - Stickers
 - Post-it notes
 - Dot markers

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Also included in this unit are 10 BINGO cards (in color and BW) to practice the vocabulary. There are suggestions for various ways to use them.

Place the pictures in the circle map on previous page about waste management.























Place the pictures in the circle map on previous page ONLY IF you think it relates to waste management.



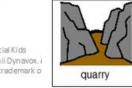
































There is are 2 circle maps in this unit. This one is on waste management.

Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

- One is errorless
- One has wrong answers mixed in students will have to set aside

Errorless version

Place the pictures in the circle map on previous page about hazardous waste.













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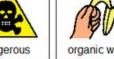






Place the pictures in the circle map on previous pa ONLY IF you think it relates to hazardous waste.





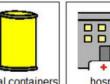
























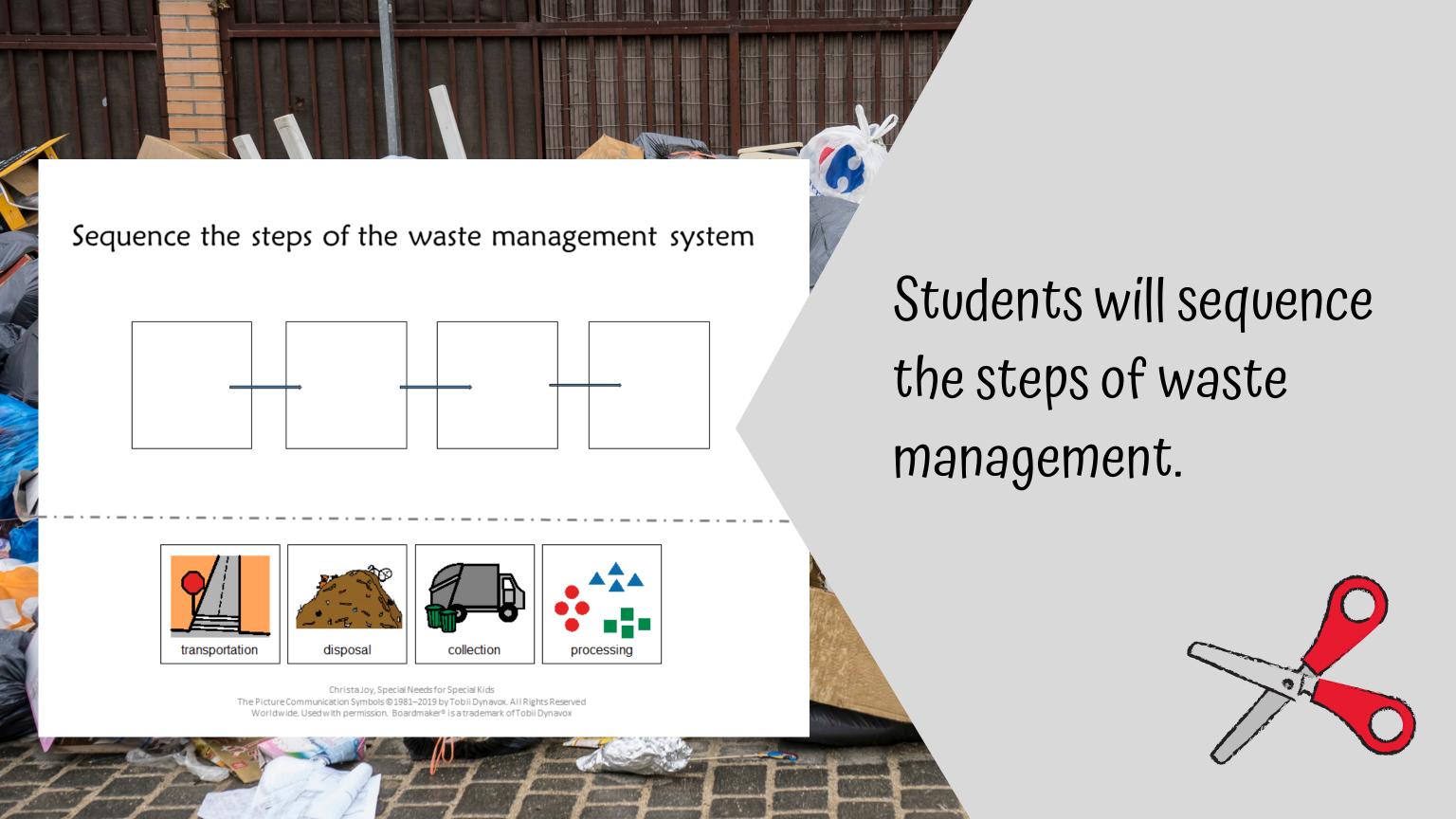


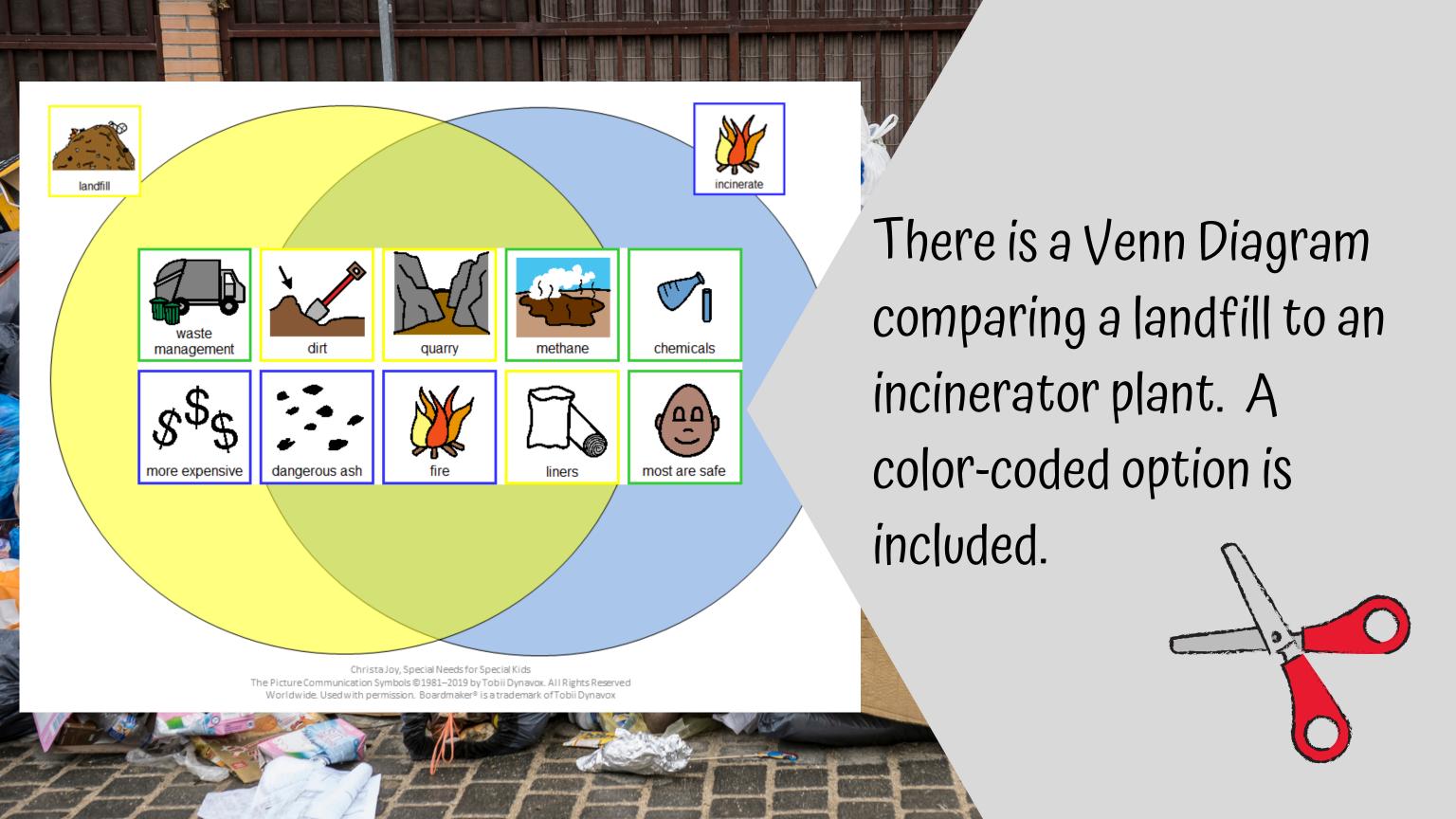




This circle map is specifically on hazardous waste.























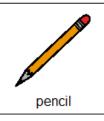




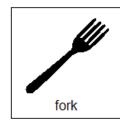






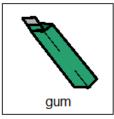




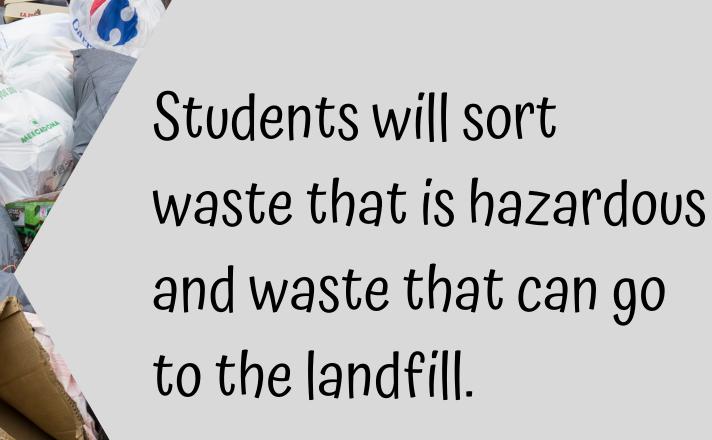


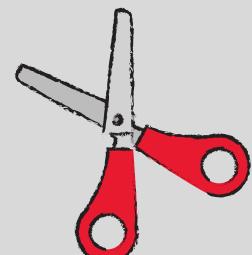


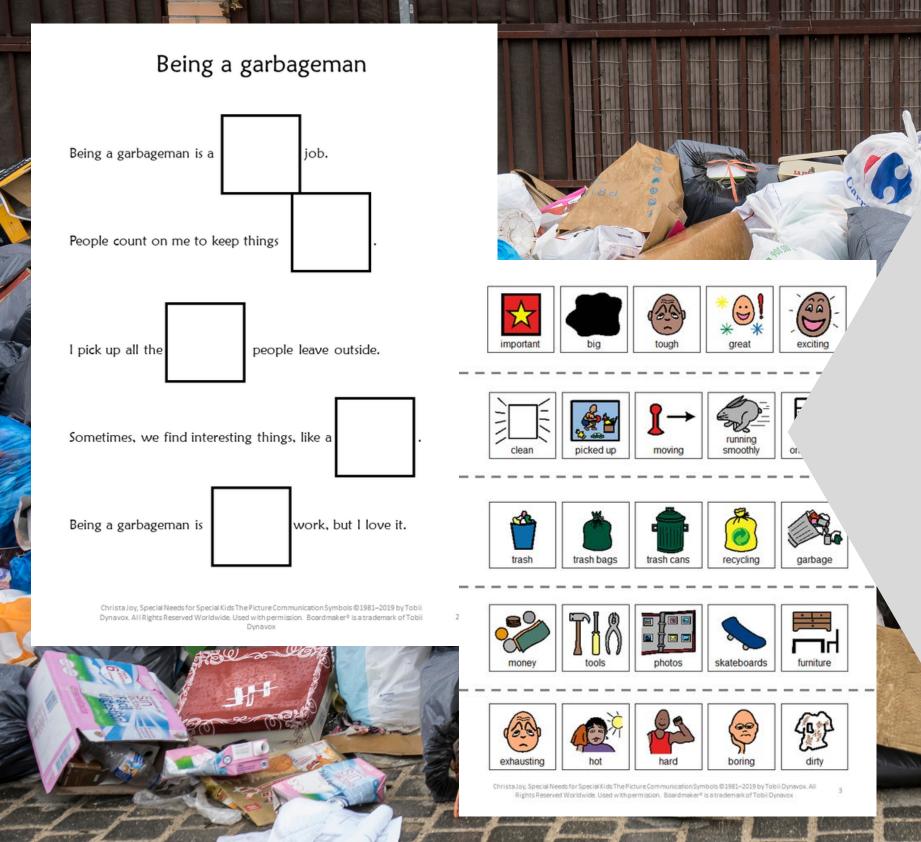




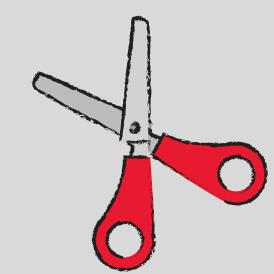
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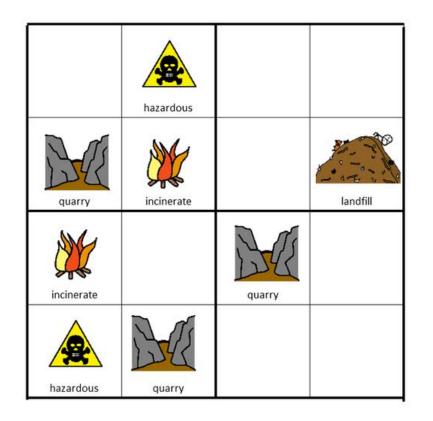




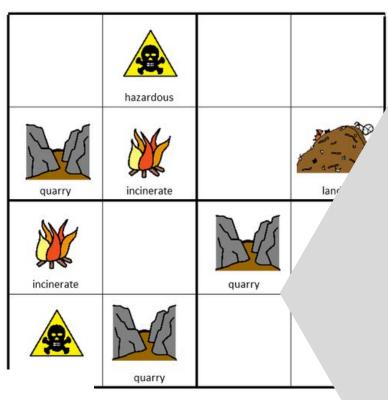
There is a writing prompt about the important jobs garbageman have.



Waste Management System



Waste Management System



There is a Sudoku puzzle in this unit as well. This is a great way to work with the new vocabulary!!

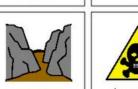
The Picture Com Worldwide Place the following images in the empty squares on the previous page, completing the sudoku puzzle.







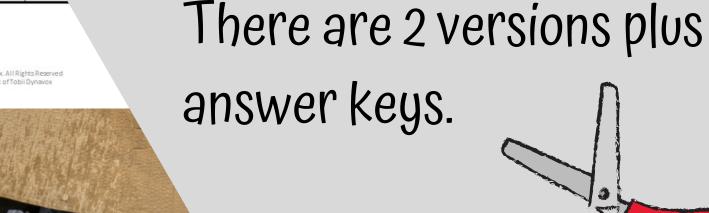


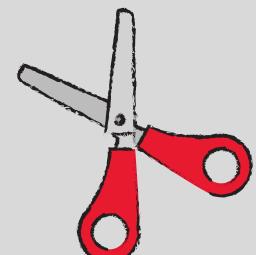






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Waste Management System

BAGRICULTUREBRB
INCINERATEQNBFY
SSZFLEORGANICKP
ERSMCOKZIORMAZR
KWEUORMETHANEEO
HZAHCOMPOSTINGD
SDGFRECYCLINGFU
KZYFMFTEMFAMNNC
HAZARDOUSHCOPNT
SOURCEREDUCTION
VWOIHZDTULUQNQE
DAWFHMVLANDFILL
KYUAGJJZWHBTSVF
RHVSFGRQLHTMCVI

source reduction hazardous

by product

incinerate landfill

organic

composting methane

sting ne

recycling agriculture





There is also a word search to work with vocabulary. If your students cannot do a word search, have them highlight the circle words on the answer key.

Solid waste management

is the first step in the waste management system.

Source reduction looks at
 a product is made.

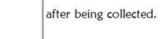
3. Source reduction finds ways to make



4. An example of source reduction is to use



5. Most trash goes to the

















5. Landfills use possible. to keep it as clean and contained as

7. Many landfills are formed in abandoned



9. An example of a resource recovery technique is

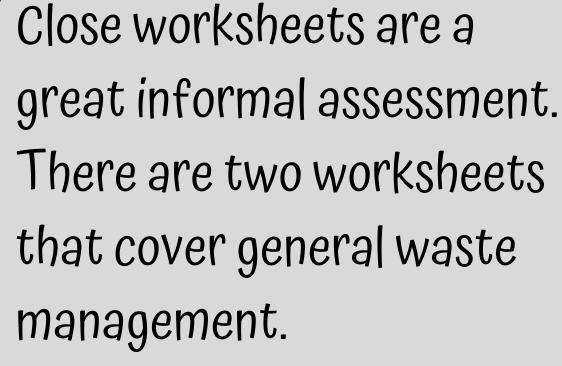




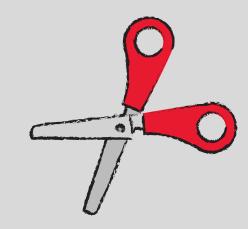








Answer key included.

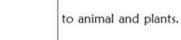


Hazardous waste

1. Hazardous waste stays in the environment a



2. Hazardous waste is



is one of the biggest producers of hazardous waste.

4. Factories create a lot of



that can be hazardous.

5. Hazardous waste from hospitals can contain be harmful.



that could

















Hazardous waste

6. Things in your home could be hazardous waste like

7. You need to take hazardous waste to a



8. There are special



that can store the hazardous waste.

9. There are very special places to take waste from a



10. Hazardous waste cannot go into the











great informal assessment. There are two worksheets that cover hazardous waste.

Close worksheets are a

Answer key included.





Version 1

 Where does most of the trash go in the waste management system?







2. Source reduction looks at which step in the process?







3. The goal of waste management is to impact what as little as possible?







4. True or False. All trash can go into the landfill.







5. Where are landfills often placed?







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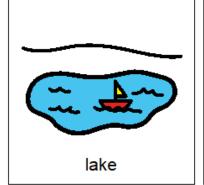
FINALLY the assessment!! There are 3 versions. This version has 10 questions with 3 picture choices for each question.

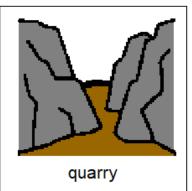
Answer key included.

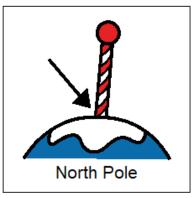


Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 5

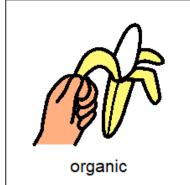


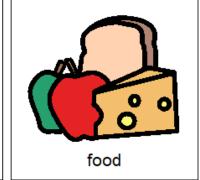




Q 6







With this version, you cut out the answer choices and glue them on index cards. Ask the student the question, and they point to the correct answer.

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- Where does most of the trash go in the waste management system?
 - A. Landfill
 - B. Ocean
 - C. Outer space
- 2. Source reduction looks at which step in the process?
 - A. End product
 - B. How it is made
 - C. Price
- 3. The goal of waste management is to impact what as little as possible?
 - A. Trash truck
 - B. Sun
 - C. Environment
- 4. True or False. All trash can go into the landfill.
 - A. True
 - B. False
 - C. I don't know
- 5. Where are landfills often placed?
 - A. Lake
 - B. Quarry
 - C. North pole
- 6. What type of waste is taken to a special facility to be process and disposed of?
 - A. Hazardous
 - B. Organic
 - C. food

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.

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Watch the movie on Solid Waste Management



This unit also includes digital versions of the activities.



Watch the movie on Hazardous Waste

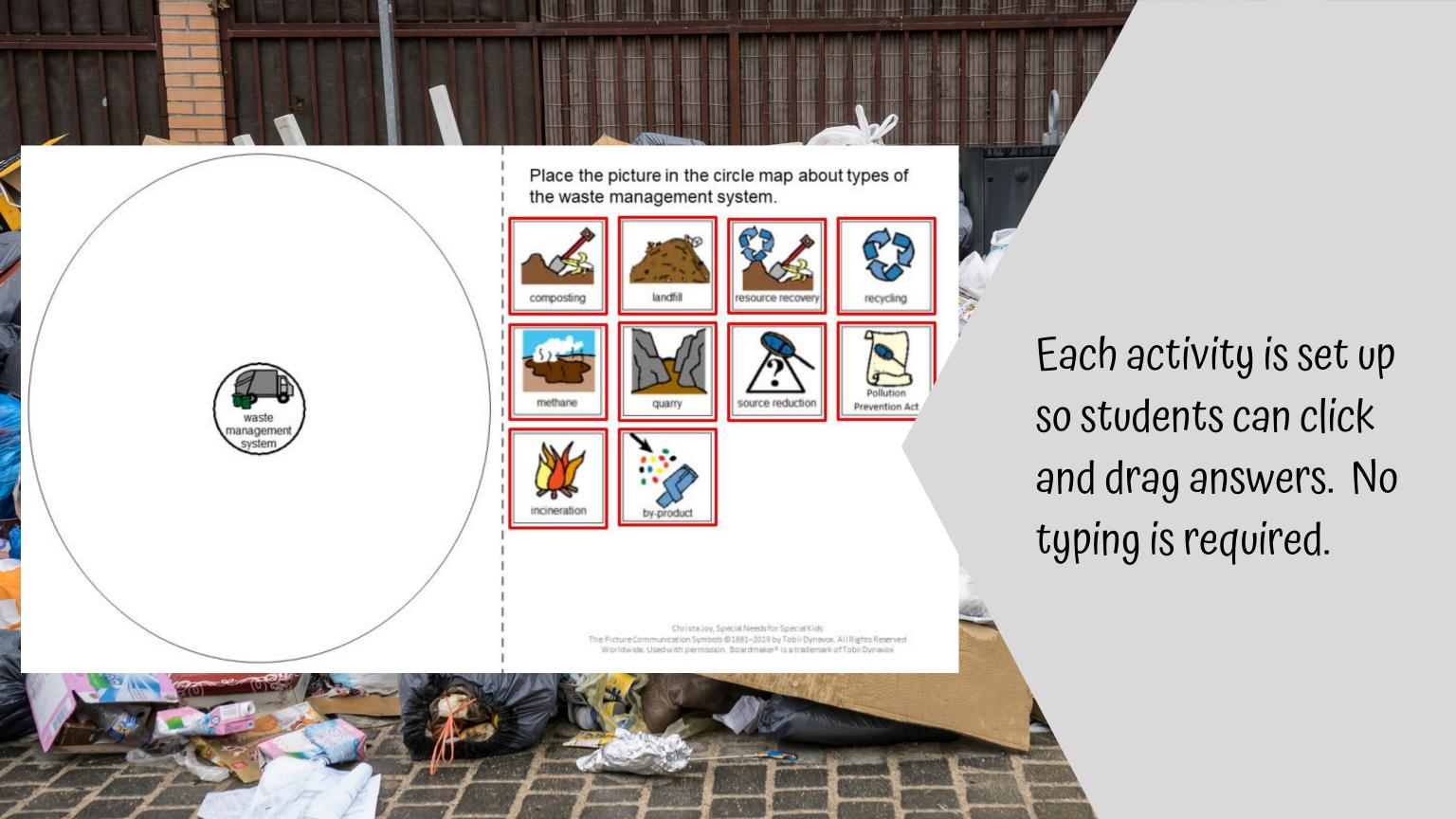


As a general rule, not only is hazardous waste dangerous, it also takes a long time to get out of the environment. It can damage an area for hundreds of years.

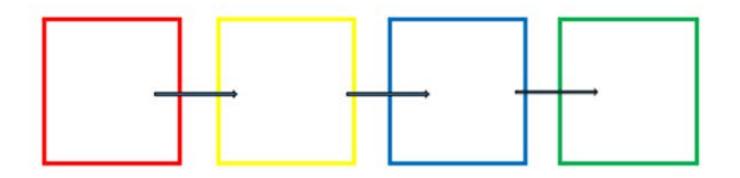


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Students can watch a movie book version of the books rather than printing them out.



Sequence the steps of the waste management system

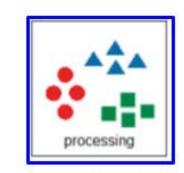


Sequence the steps of the waste management system.









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The second set of slides uses color for differentiation and extra support for students who may need it. Mix and match slides from both sets to make the perfect set for

each student.

