

SPECIAL ED

SUSTAINABILITY

FOR HIGH SCHOOL



ALSO INCLUDES GOOGLE SLIDES

Special Needs for Special Kids



This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, and loves the sound of piano keys. With some support he is able to do this unit, and enjoys the challenge. He is my tester!!

Sustainability 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

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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.

Sustainability Lesson Plan

Preparation

- Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Book
 - Print out, laminate, and bind
 - 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 I Spy games
- Bingo cards
 - This unit comes with a set of Bingo cards.
 - They are in color and B/W
 - 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

1. *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/>

The lesson plans contain:

Overall tips for teaching
students with significant
needs

Quick Look

Day	Activity	Day	
1	<ul style="list-style-type: none">• Book• Vocab cards activity• Circle map	8	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity
2	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	9	<ul style="list-style-type: none">• Book• Vocab cards activity• Sorting activity
3	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	10	<ul style="list-style-type: none">• Book• Vocab cards activity• Writing prompt
4	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	11	<ul style="list-style-type: none">• Book• Vocabulary cut and paste• Sudoku puzzle
5	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	12	<ul style="list-style-type: none">• Book• Vocabulary cut and paste• Word search
6	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	13	<ul style="list-style-type: none">• Book• Vocab cards activity• Close worksheet
7	<ul style="list-style-type: none">• Book• Vocab cards activity• Sustainability collage	14	<ul style="list-style-type: none">• Assessment

The lesson plans contain:

A quick look at what you will do each day

Day 10

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	<ul style="list-style-type: none">• Read through the story, asking lots of questions• Continue to make connections between book and vocabulary board	<ul style="list-style-type: none">• Book• Vocabulary board
Vocabulary cards speed game (15 minutes) OR BINGO	<ul style="list-style-type: none">• Place the finished vocabulary cards in the middle of the table• Either hold up or describe a card and the student who can find it first wins and keeps the card<ul style="list-style-type: none">◦ The student with the most cards at the end is the winner	<ul style="list-style-type: none">• Vocabulary cards• Vocabulary board
Sorting activity review (5 minutes)	<ul style="list-style-type: none">• Review the sorting activity completed yesterday	<ul style="list-style-type: none">• Activity completed yesterday
Writing prompt (10 minutes)	<ul style="list-style-type: none">• Complete the writing prompt about what I can do for sustainability• Students can do more than one if desired• These are errorless• Can make more than one story	<ul style="list-style-type: none">• Writing prompt• Scissors• Glue
Sharing (10 minutes)	<ul style="list-style-type: none">• Each student shares their story with the group using the communication method of their choice	<ul style="list-style-type: none">• Completed story• 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!!



So, what can you do about sustainability when it comes to plastic? The easy answer is to use less plastic. And when you do, try to recycle it.



So, what can you do about sustainability when it comes to waste? One thing you can do is set up a **composting** area at home.



There is a book with this unit using simple text and photos. It is 52 pages and is an overview of the effects of the human population on the earth.

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

sustainability

Meeting the needs of the present while still being able to meet the needs in the future.



renewable

Sources of energy that can never run out like solar and wind.



nonrenewable

Sources of energy that can run out like coal, oil, and natural gas.



solar energy

Energy produced from the light and heat of the sun. The most abundant renewable resource.



wind energy

Energy produced using the movement of the wind to turn a turbine and create electricity.



deforestation

Removal of forests; cutting down large amounts.



Greenhouse effect

The gases in the earth's atmosphere that trap heat from the sun.



composting

Natural process of breaking down plant material into nutrient rich soil.



There are 12 vocabulary cards that come in color and black and white.

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

sustainability

Meeting the needs of the present while still being able to meet the needs in the future.



renewable

Sources of energy that can never run out like solar and wind.



nonrenewable

Sources of energy that can run out like coal, oil, and natural gas.

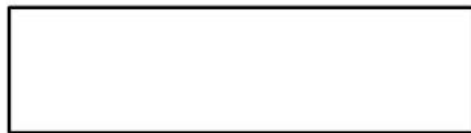


solar energy

Energy produced from the light and heat of the sun. The most abundant renewable resource.



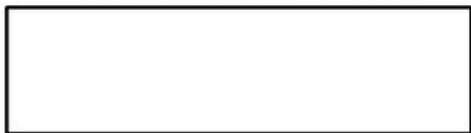
wind energy



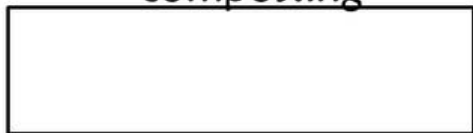
deforestation



Greenhouse effect



composting



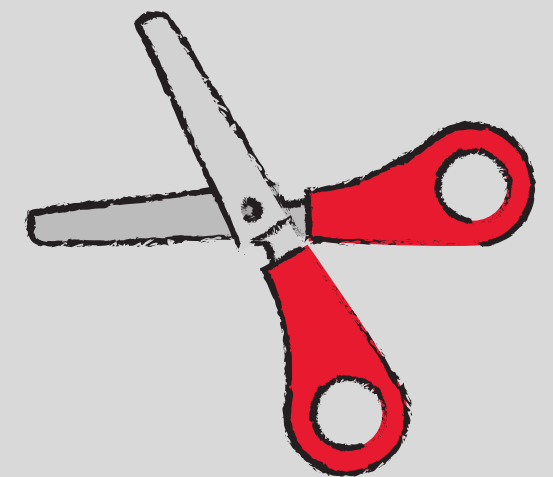
The gases in the earth's atmosphere that trap heat from the sun.

Natural process of breaking down plant material into nutrient rich soil.

Meeting the needs of the present while still being able to meet the needs in the future.



On days 12&13 there is an activity where students will match either the picture to the definition or the definition to the picture (harder).










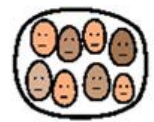





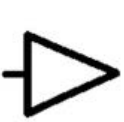


Bingo cards



- 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 marker:
 - Stickers
 - Post-it notes
 - Dot markers



 sustainable	 renewable	 solar energy	 wind energy
 earth	 deforestation	 greenhouse effect	 pollution
 composting	 carrying capacity	 biodiversity	 extinction
 pollinate	 reuse	 natural resources	 future

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.


Errorless version







Place the pictures in the circle map on previous page about sustainability.



 renewable energy	 composting	 solar energy	 wind energy	 save water
 biodiversity	 future	 lights off	 ride a bike	 plant a tree

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



 renewable energy	 use more oil	 solar energy	 wind energy	 save water
 biodiversity	 future	 lights off	 burn more coal	 drought
 pollution	 composting	 more people	 ride a bike	 plant a tree

There is a circle map on the main facts about sustainability.

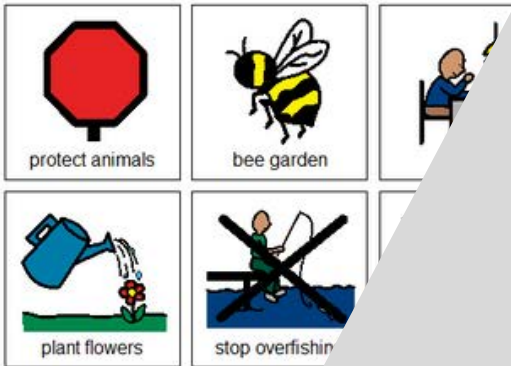
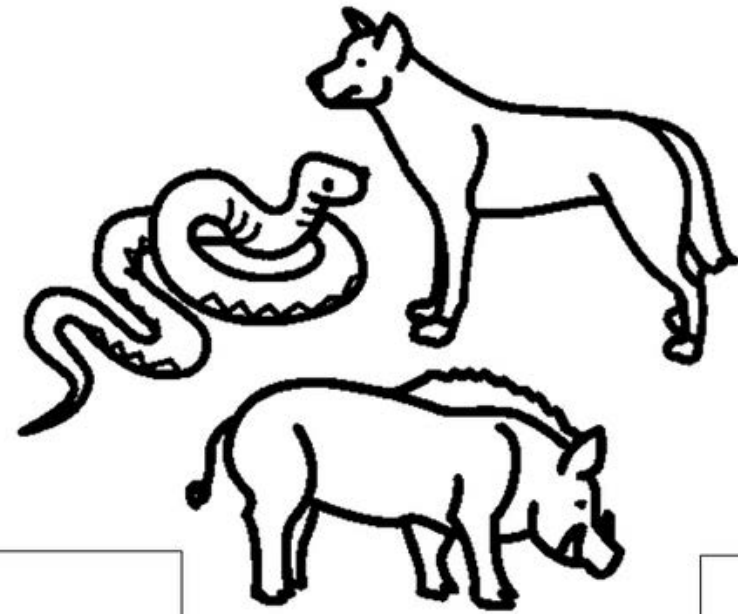
Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

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

Biodiversity

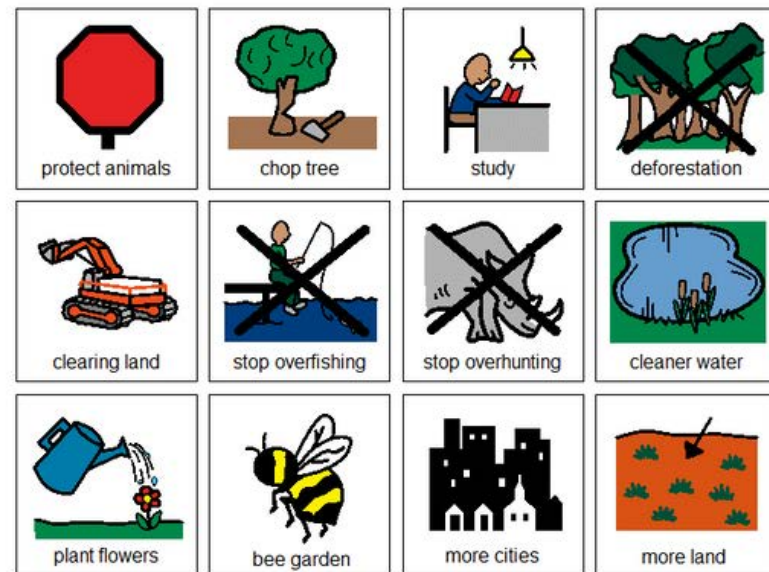
biodiversity

Cut out symbols and place on the image depicting why biodiversity is important for sustainability.

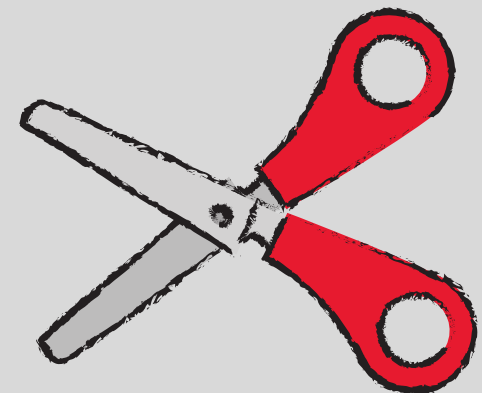


biodiversity

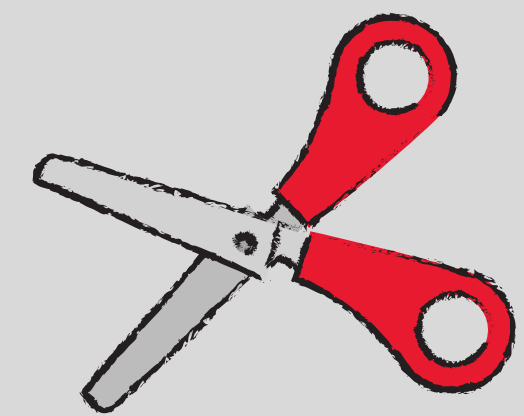
Cut out symbols and place inside collage **ONLY IF** it applies to sustainability and biodiversity.







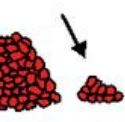

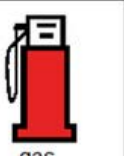
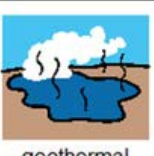


There are 6 collages that focus on different areas of sustainability. Each collage comes with an errorless version and one with wrong answers mixed in.















There are 2 sorting activities. One looks at renewable and nonrenewable energy sources. The other one looks at things that do and do not help with sustainability.



renewable		NOT renewable	
 oil	 solar	 wind	 water
 coal	 natural gas	 limited	 nuclear
 gas	 geothermal		

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sustainable		NOT sustainable	
 deforestation	 bee garden	 good for earth	 bad for earth
 composting	 rely on natural resources	 recycle	 extinction
 greenhouse effect	 renewable energy	 pollution	 education

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Sustainability

We all need to do to protect our earth.

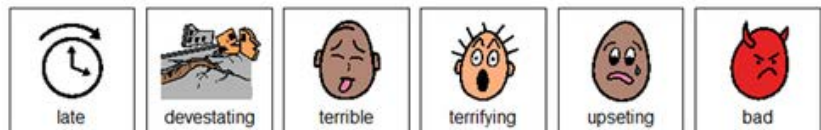
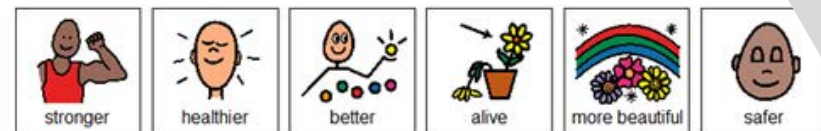
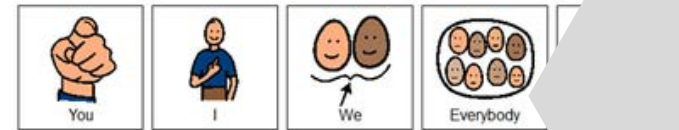
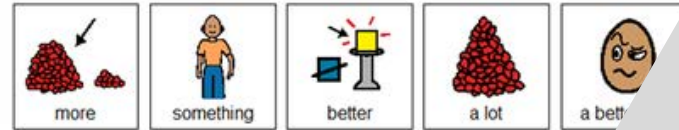
can make a difference.



One thing I can do is .

It will keep the earth longer.

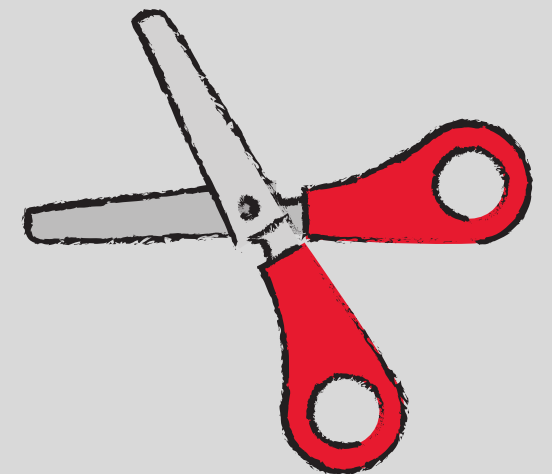
If we don't do something soon, it could be .























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There is a writing prompt where students write a story about what they can do for sustainability.











Sustainability









	 sustainability		 future	 renewable	 biodiversity
 composting	 future	 biodiversity	 renewable	 sustainability	 deforestation
 renewable		 sustainability		 future	 compo
	 deforestation		 composting		 sustaini
		 future			 renew
 sustainability					

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Place the following images in the empty squares on the previous page, completing the sudoku puzzle.

 sustainability	 biodiversity	 biodiversity	 biodiversity
 future	 future	 renewable	 renewable

Sustainability

			 future
		 sustainability	
 biodiversity	 renewable	 future	 sustainability
	 sustainability		 renewable

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

There are 2 versions plus answer keys.



Sustainability

WINDENERGYAIFJKEDOTG
BNQJDLEPALTZZGGOSBCI
KEFCHATZFDXSXSRNGZQCW
DEFORESTATIONESGHSAZ
OKTDYCOFQKRGXENFSZRM
KHWRPOLLINATENMHUORR
NSCHXIAHZGUKTHOMSEYC
IIJHDNRSXJWXEOMLTXIO
BIODIVERSITYAUSBATNT
WARIZWNJIFOSRSLMIIGA
AZHJRDECRIFLTEAKNNCR
BSGBEVROAGSOHEJFACAR
IGIXNMGMLNEPKFVUBTPI
ODUYEHYPWNJPUFWTIIAC
DBJZWGNOTSKALEEULOCN
EANBAQTSINPXOCHRINI
YDOXBVNTTREPITYETDTH
TXOVLHAI BVVOVBKBYCYY
NDGFEMRNWAZPFSQEAWXP
MZKRGNPGCCDWOXVXLXTNK

greenhouse effect	carrying capacity	sustainability	deforestation
biodiversity	solar energy	wind energy	composting
renewable	pollinate	future	extinction
earth			

Sustainability

WINDENERGYAIFJKEDOTG
BNQJDLEPALTZZGGOSBCI
KEFCHATZFDXSXSRNGZQCW
DEFORESTATIONESGHSAZ
OKTDYCOFQKRGXENFSZRM
KHWRPOLLINATENMHUORR
NSCHXIAHZGUKTHOMSEYC
IIJHDNRSXJWXEOMLTXIO
BIODIVERSITYAUSBATNT
WARIZWNJIFOSRSLMIIGA
AZHJRDECRIFLTEAKNNCR
BSGBEVROAGSOHEJFACAR
IGIXNMGMLNEPKFVUBTPI
ODUYEHYPWNJPUFWTIIAC
DBJZWGNOTSKALEEULOCN
EANBAQTSINPXOCHRINI
YDOXBVNTTREPITYETDTH
TXOVLHAI BVVOVBKBYCYY
NDGFEMRNWAZPFSQEAWXP
MZKRGNPGCCDWOXVXLXTNK

greenhouse effect	carrying capacity	sustainability	deforestation
biodiversity	solar energy	wind energy	composting
renewable	pollinate	future	extinction
earth			

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.

Sustainability

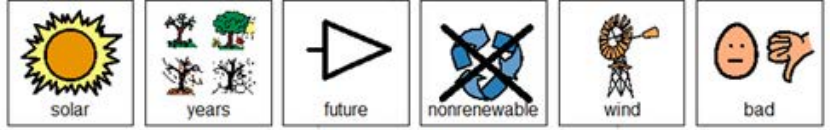
1. Sustainability is concerned with needs in the .

2. Oil, coal, and natural gas are resources.

3. Energy sources like and support sustainability.

4. Deforestation is a thing for sustainability.

5. Plastic can take thousands of to break down.



Sustainability

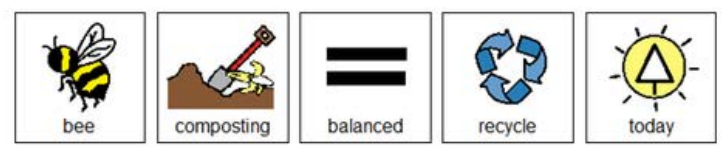
6. To reduce waste, try to as much as possible.

7. is something you can do with your food.

8. Biodiversity helps to keep the ecosystem which is important for sustainability.

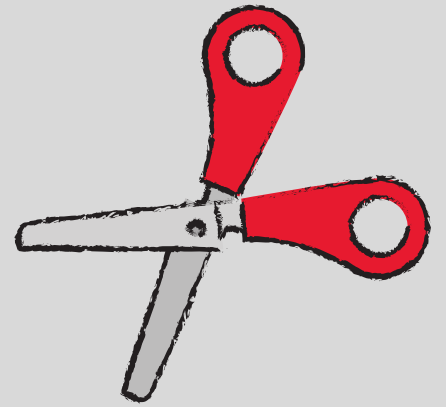
9. Growing a garden will help increase pollination and biodiversity.

10. Sustainability meets the needs of without risking the future.

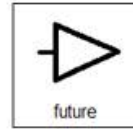
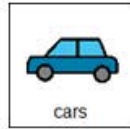


Close worksheets are a great informal assessment. There are two worksheets that cover the main points from the book.

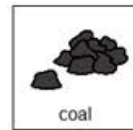
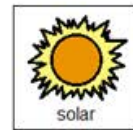
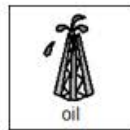
Answer key included.



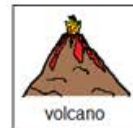
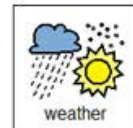
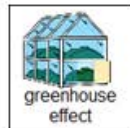
1. Sustainability means providing what we need today with harming the:



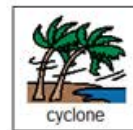
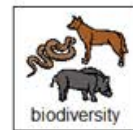
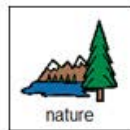
2. Which energy source is best for sustainability?



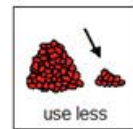
3. Deforestation contributes to the earth getting warmer, also know as the:



4. The balance of all living things on earth is known as:



5. What should you do with plastic materials? (circle all)



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 9



Q 10



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.

1. Sustainability means providing what we need today with harming the:
 - A. Cars
 - B. Machines
 - C. future
2. Which energy source is best for sustainability?
 - A. Oil
 - B. Solar
 - C. Coal
3. Deforestation contributes to the earth getting warmer, also know as the:
 - A. Greenhouse effect
 - B. Weather
 - C. Volcano
4. The balance of all living things on earth is known as:
 - A. Nature
 - B. Biodiversity
 - C. cyclone
5. What should you do with plastic materials? (circle all)
 - A. Throw away
 - B. Use less
 - C. recycle
6. Is the growing population good or bad for sustainability?
 - A. Good
 - B. Bad
 - C. I don't know

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.

Watch the movie
on Sustainability

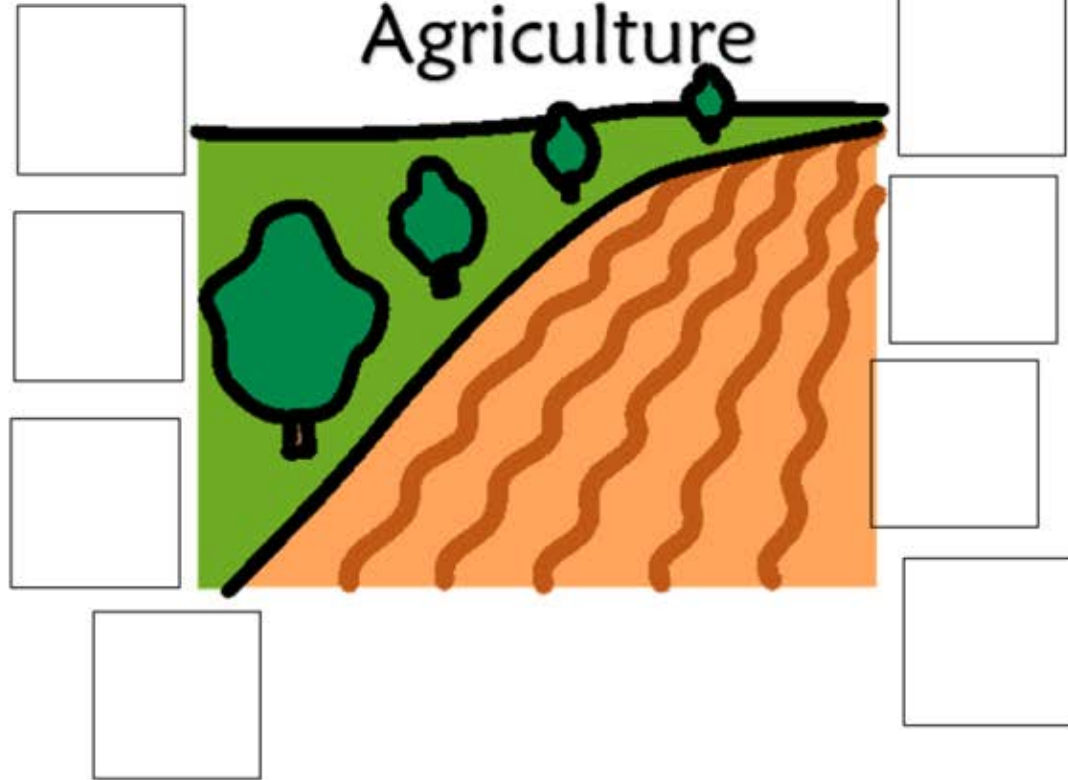
Scientists have been studying this issue for years. They know exactly which animals are close to **extinction** and put strict regulations in place to protect them.



This unit also includes digital versions of the activities.

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

Agriculture



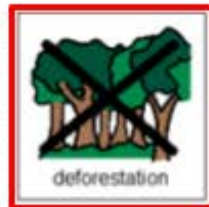
Place the picture in the collage **ONLY IF** they are ways to use the land sustainably.



Each activity is set up so students can click and drag answers. No typing is required.



Sort the pictures depending on if they are good or bad for sustainability. If you are not sure, place it on the center line.



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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.

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- **14 days of lesson plans**
- **Sustainability activities in color**
- **Sustainability activities in black and white**
- **Voice-recorded PowerPoint show**
- **Sustainability book (PowerPoint) to use with activities**
- **Links and directions to digital activities**