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This unit contains almost 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.

Alternative Energy 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
 - 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 also one for the teacher to use in 1 Spy games

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.
 - For more info, read more here: https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-fordifferentiation/
 - 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/
- Make you own copies of the activities: Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.

The lesson plans contain:

Overall tips for teaching students with significant needs

Quick Look

Day	Activity	Day	Activity
1	Book Vocab cards introduction Circle map	9	Book Energy collage Pros/cons sorting
2	Book Vocab cards activity Circle map	10	Book Vocab cards cut and paste Vocabulary puzzle
3	BookVocab cards activitySorting activity	11	 Book Vocab cards cut and paste Vocabulary puzzle
4	Book Vocab cards activity Energy collage Pros/cons sorting	12	Book Vocab cards activity Close worksheet
5	Book Vocab cards activity Energy collage Pros/cons sorting	13	Book Vocab cards activity Close worksheet
6	Book Energy collage Pros/cons sorting	14	Book Vocab cards activity Close worksheet
7	Book Energy collage Pros/cons sorting	15	Assessment
8	Book Energy collage Pros/cons sorting		

The lesson plans contain:

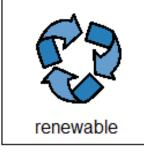
A quick look at what you will do each day

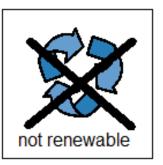
Day 2

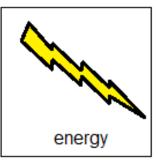
Activity	Notes	Materials	
Read or listen to a recording of the book (15 minutes)	Read through the story, asking lots of questions Continue to make connections between book and vocabulary board	 Book Vocabulary board 	
Vocabulary cards <mark>I Spy</mark> <mark>Game</mark> (10 minutes)	 Determine how many cards your students can handle in front of them. This can vary, some students may be able to have all the cards, so may only be able to handle a field of 3-5 Discuss relevant points on the card You can also play this game in this manner having them find the symbol on their vocabulary board 	 Vocabulary cards (student set and teacher set) Vocabulary board 	
Circle map review (5 minutes)	Review the circle map completed yesterday	Circle compl. yesterda	
Circle Map (10 minutes)	30 Nation 1000		
Sharing (10 minutes)	Each student shares their circle map with the group using the communication method of their choice	 Completed circle maps Communication devices 	

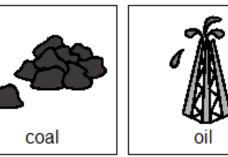
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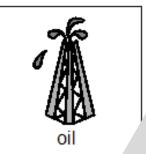
Detailed instructions on how that day's lesson should run

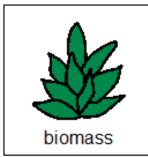


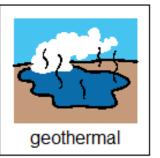


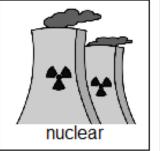


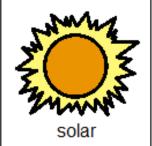




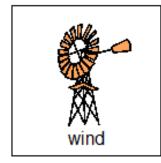


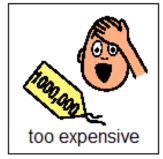


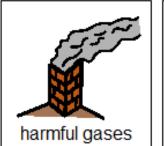






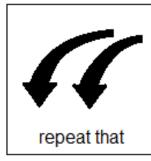


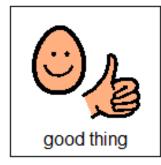






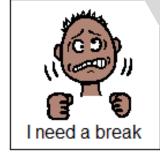












This unit comes with a vocabulary board.

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 first source is biomass or bioenergy. This form of energy uses plants and waste and turns them into different forms of energy.



Nuclear energy is the third type of alternative lt uses the energy stored in the nucleus of and is extracted using a process of fission



There is a book with this unit using simple text and photos. It is 41 pages and is an overview of Alternative Energy Sources.

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

Christa Joy, Special Needs for Special Ki-

uranium

Radioactive element used to break apart an atom's nucleus.



hydropower

Energy produced from running or falling water like a river or waterfall.



solar power

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



turbine

Engine that uses the movement c wind or water to spin a set of blade and make electricity.



There are 14 vocabulary cards that come in color and black and white.

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

non-renewable

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



Sources of energy that can never run out like biomass, geothermal, solar, Cut apart and match pictures with definition.













biomass/bioenergy

Uses plants and waste and turns them into different forms of energy



when creating energy

feedstock

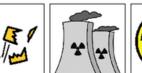
Any raw material that you s













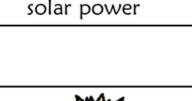


Any raw material that

crust to create energy.



solar power









Cut apart and match definition with pictures.

Energy produced from the light and

an atom to create energy.

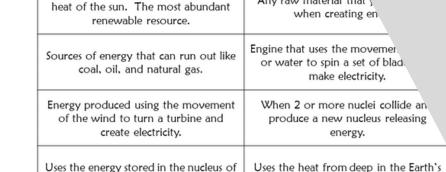


uranium

hydropower

turbine





On days 10&11 there is an activity where students will match either the picture to the definition or the definition to the picture (harder).

Errorless version

Place the pictures in the circle map on previous page about renewable energy sources.













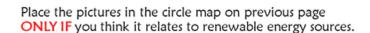
































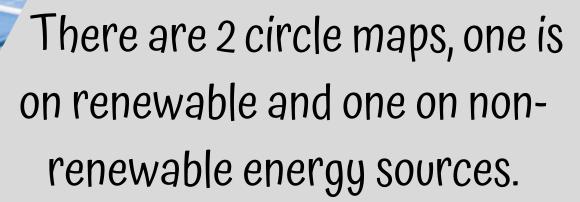






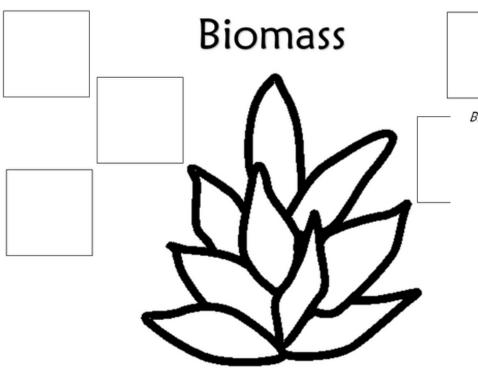






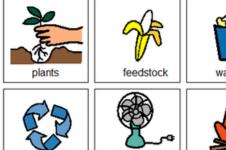
Circle maps are a great way for students to see the concept at a glance. There are 2 versions:

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

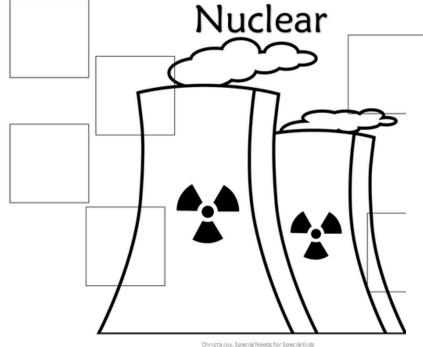




Cut out symbols and place on the image depicting the biomass or



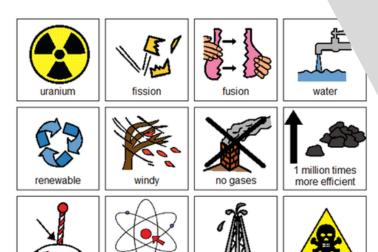




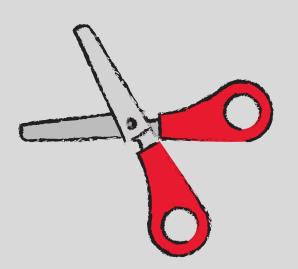
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Nuclear

Cut out symbols and place inside collage ONLY IF it applies



There are 6 collages one for each energy source. they come in an errorless and non-errorless version.

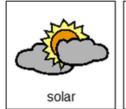




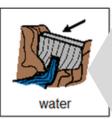


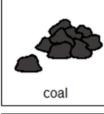
Sort the pictures depending on if they are a renewable source of energy. If you are not sure, place it on the center line.

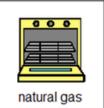


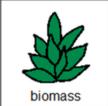


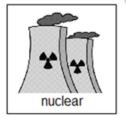


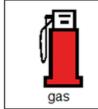


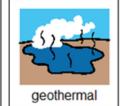




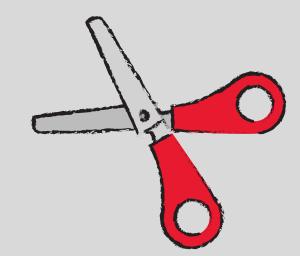








There is a sorting activity that has students sort renewable and non-renewable energy sources.









Sort the pictures depending on if they are a good thing (PRO) or bad thing (CON) about that form of energy. If you are not sure, place it on the center line.

















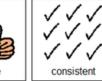
Geothermal





Sort the pictures depending on if they are a good thi (PRO) or bad thing (CON) about that form of energy. you are not sure, place it on the center line.







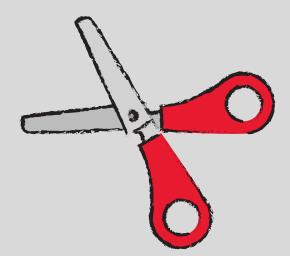




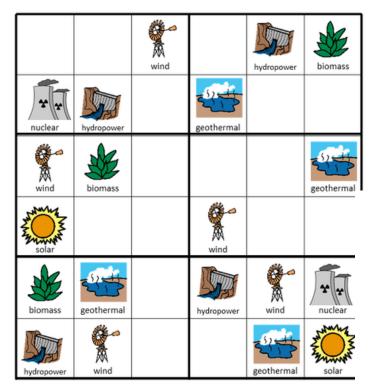




There is also a sorting activity for each energy source. Students sort the pros and cons of each.



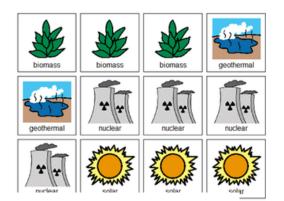
Alternative Energy



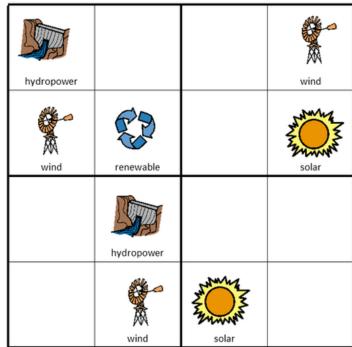
Christa Joy, Special Needs for Special Kids
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Place the following images in the empty squares on the previous page, completing the sudoku puzzle.



Alternative Energy



Christa Joy, Special Needs for Special Kids

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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.

Alternative Forms of Energy

F E E D S T O C K W
B U F F U S I O N X
H Y D R O P O W E R
B I O M A S S S M U
G E O T H E R M A L
S W N U C L E A R F
O I J F I S S I O N
L N H U R A N I U M
A D T U R B I N E K
R R E N E W A B L E

geothermal biomass

uranium

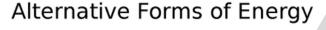
hydropower nuclear

fusion

turbine

feedstock fission wind







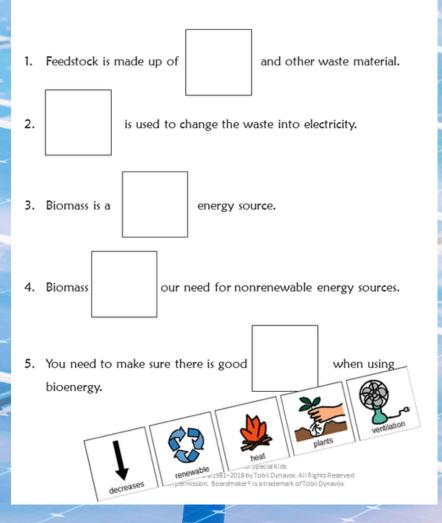
geothermal biomass uranium

hydropower nuclear fusion renewable turbine feedstock fission wind

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.

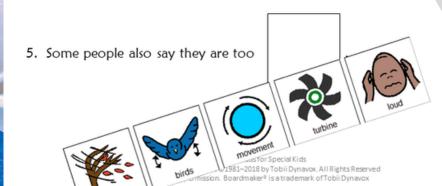






Wind

- You can also make electricity by using the wind.
- 2. The wind spins a that creates el
- 3. This type of energy works better in areas that are mo
- 4. The windmills can be dangerous for



Close worksheets are a great informal assessment. There is one worksheet (5 questions) for each energy source.

Answer key included.



I. Circle the examples of renewable energy:













2. One problem with renewable energy is that most forms are very:







3. Which form of energy relies on plants and other waste product?







4. Geothermal energy uses heat from the:







5. Which form of renewable energy can be dangerous for birds?







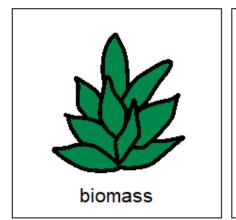
FINALLY the assessment!! There are 3 versions. This version has 10 questions with 3 picture choices for each question.

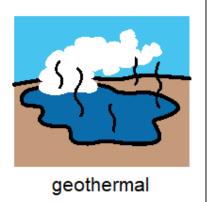
Answer key included.

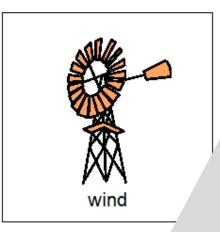
Version 2

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

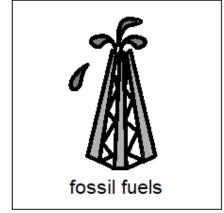
Q 5



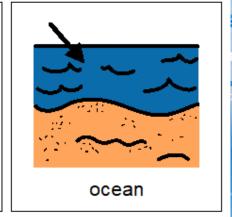




Q 6







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.

1. Circle the examples of renewable energy:

A. Biomass D. Solar
B. Geothermal E. Water
C. Nuclear F. Wind

- 2. One problem with renewable energy is that most forms are very:
 - A. Dangerous
 - B. Expensive
 - C. frustrating
- Which form of energy relies on plants and other waste product?
 - A. Biomass
 - B. Solar
 - C. Coal
- 4. Geothermal energy uses heat from the:
 - A. Sun
 - B. Ocean
 - C. Earth
- 5. Which form of renewable energy can be dangerous for birds?
 - A. Biomass
 - B. Geothermal
 - C. Wind
- 6. The best thing about renewable energy is that is decreases our need for:
 - A. Fossil fuels
 - B. Weather
 - C. Ocean

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 Alternative Forms of Energy



This unit also has 58 google slides. There are 2 sets of slides (29 in each set). The second set is differentiated using color.

