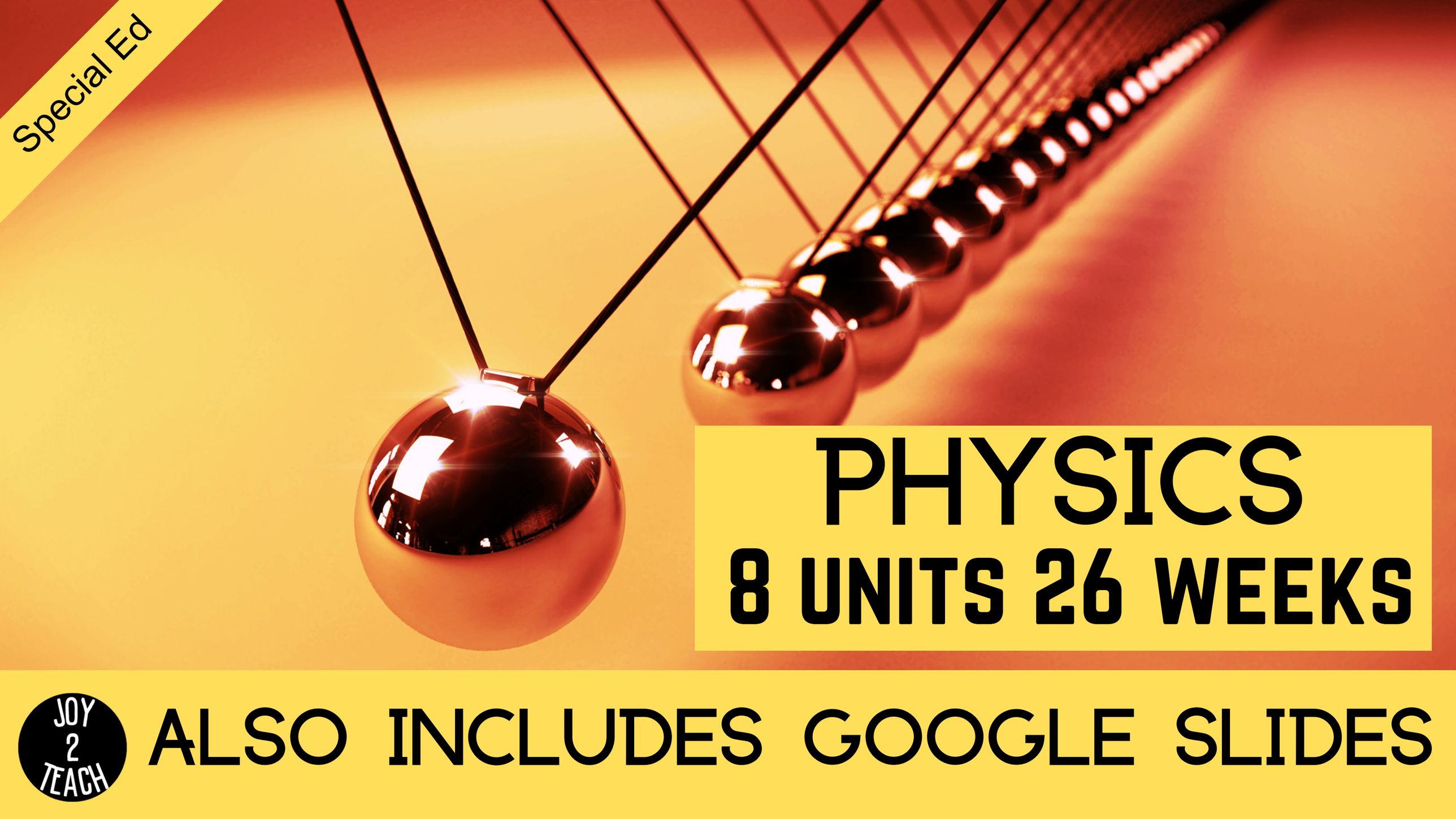

Special Ed
PHYSICS
8 UNITS 26 WEEKS
JOY 2 TEACH
ALSO INCLUDES GOOGLE SLIDES

For students who:

- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support
- middle/high school

Why you need this curriculum:

- If you teach multiple grade levels, you have all you need in one place.
- Having the same layout for each unit reduces students' anxiety and allows them to focus on the content.
- Aligned with extended learning standards.
- Saves you money
- Saves you time.

This bundle includes 8 different units that are typically part of a high school physics curriculum. It includes:

1. Electricity and Circuits (3 weeks)
2. Light Energy (3 weeks)
3. Motion Graphs (3 weeks)
4. Potential and Kinetic Energy (3 weeks)
5. Simple Machines (5 weeks)
6. Sound Energy (3 weeks)
7. Thermal Energy (3 weeks)
8. Types of Forces (3 weeks)

All units have printable AND digital versions

J2T

All the units contain similar activities so students become familiar with the format and can concentrate more on the content. Although there is some variation, each unit has:

- Detailed lesson plans
- A book PLUS a pre-recorded PowerPoint show and movie version
- Vocabulary cards
- Circle maps
- Sorting activities
- Labeling activities
- Experiments
- Close worksheets (fill in the blank)
- Assessments (3 versions)

All units have printable AND digital versions

Table of Contents

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

Each unit has a table of contents. There is a separate file with directions and links to the digital activities.

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 I Spy Game (10 minutes)	• I play this game, or variations of it the first few days
	  o 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
	• Since this is the first time playing this game, I make it easy. Hold up a card, and have students find the matching one and hold it up
	• Discuss relevant points on the card
	  o 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

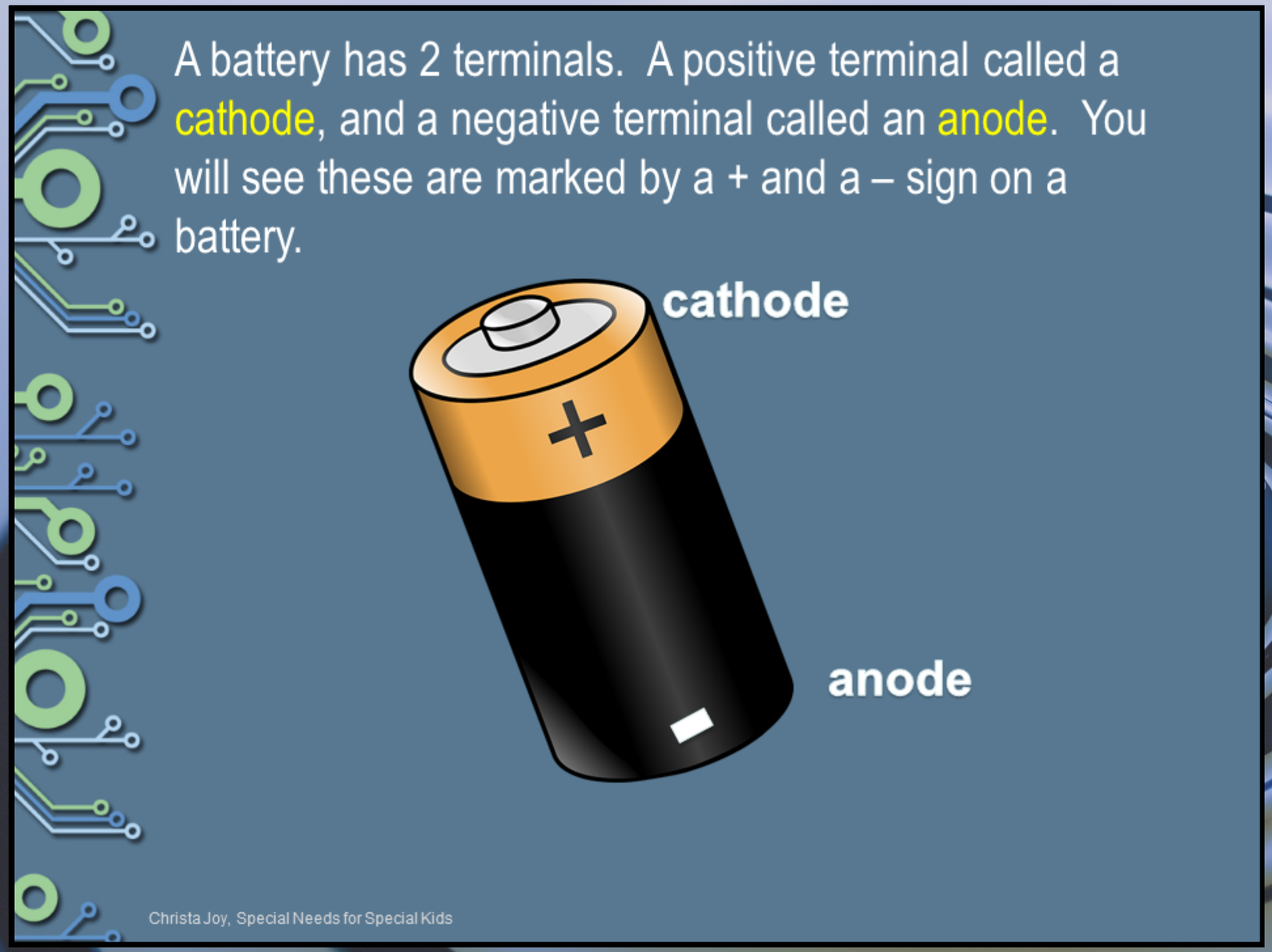
Circle map review (5 minutes)	• Review the circle map completed yesterday	• Circle map completed yesterday
Circle Map (10 minutes)	• Do the circle map on opaque objects • Choose the best version (errorless or not) depending on the learning level of your students • Students cut out symbols and place in circle map • Make connections to the book as necessary	• Circle map • Scissors • Glue
Sharing (10 minutes)	• Each student shares their finished circle map with the group using the communication method of their choice	• Completed activity • Communication devices

Lesson plan

Every unit has a detailed lesson plan with:

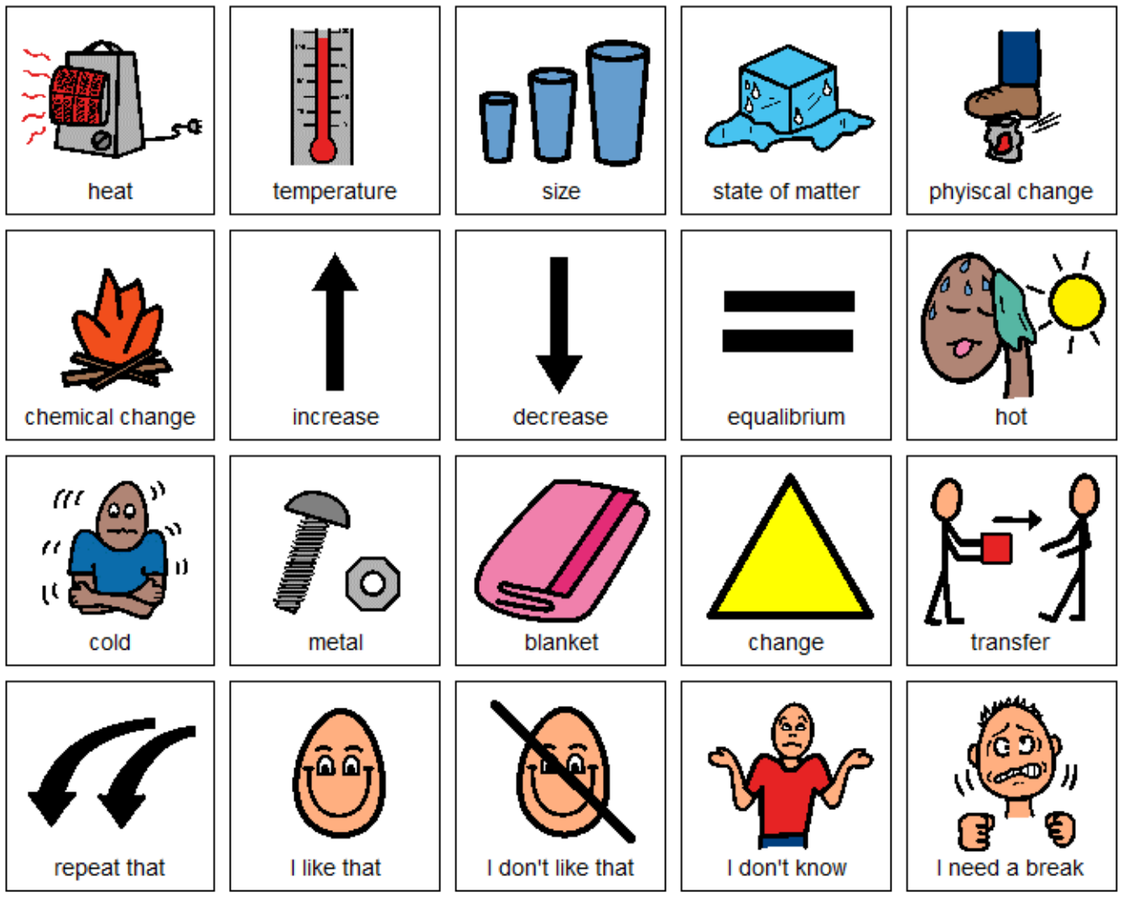
- suggestions
- overview
- daily step-by-step guide

Book



Every unit has a book with simple text and engaging photos. It comes in:

- PowerPoint
- recorded PPT show
- mp4 (movie) file



Each unit has a vocabulary board to use while working through the unit. Suggestions for use are included.

sound

Form of energy that travels through a medium.

vibrate

Molecules moving very fast.

longitudinal wave

A wave that moves through something, pushing the molecules in the same direction it is moving.

frequency

How many vibrations occur in one second.

pitch

audible

ultrasounds

amplitude

intensity

How loud a sound is.

decibels

How the loudness of a sound is measured.

dB

echo

Sound wave that is reflected because it is reflected back off a hard, smooth surface.

echolocation

Bats send out ultrasounds that are reflected back and show the location of objects.

sound

Form of energy that travels through a medium.

vibrate

Molecules moving very fast.

longitudinal wave

A wave that moves through something, pushing the molecules in the same direction it is moving.

frequency

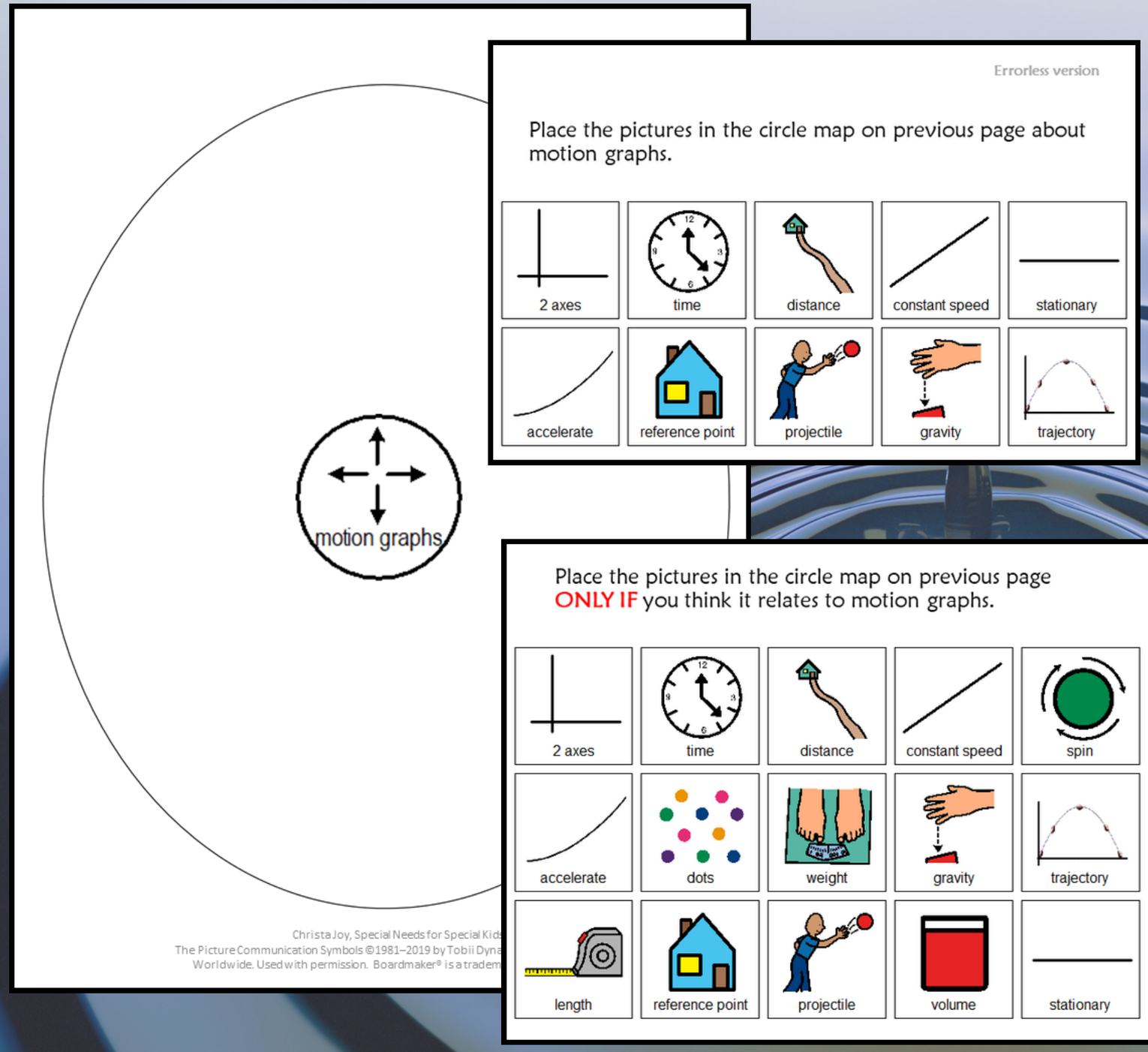
How many vibrations occur in one second.

Vocabulary

Every unit has vocabulary cards. There are suggestions for daily group activities to review these.

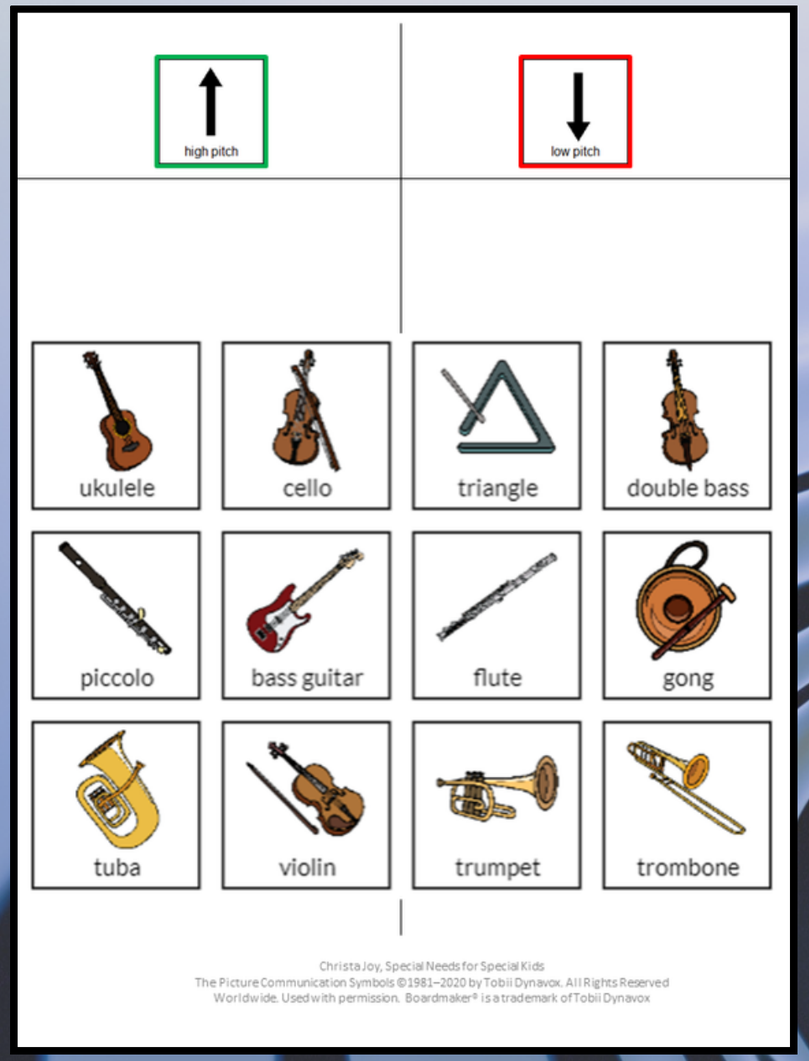
J2T

circle maps

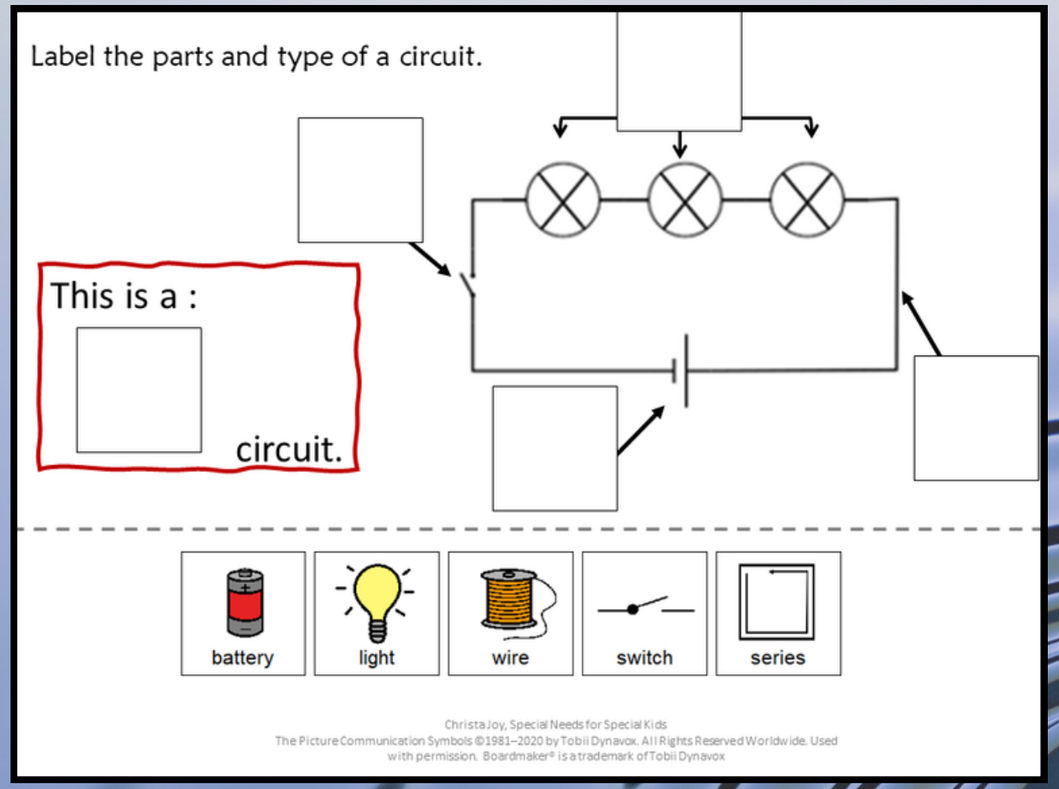


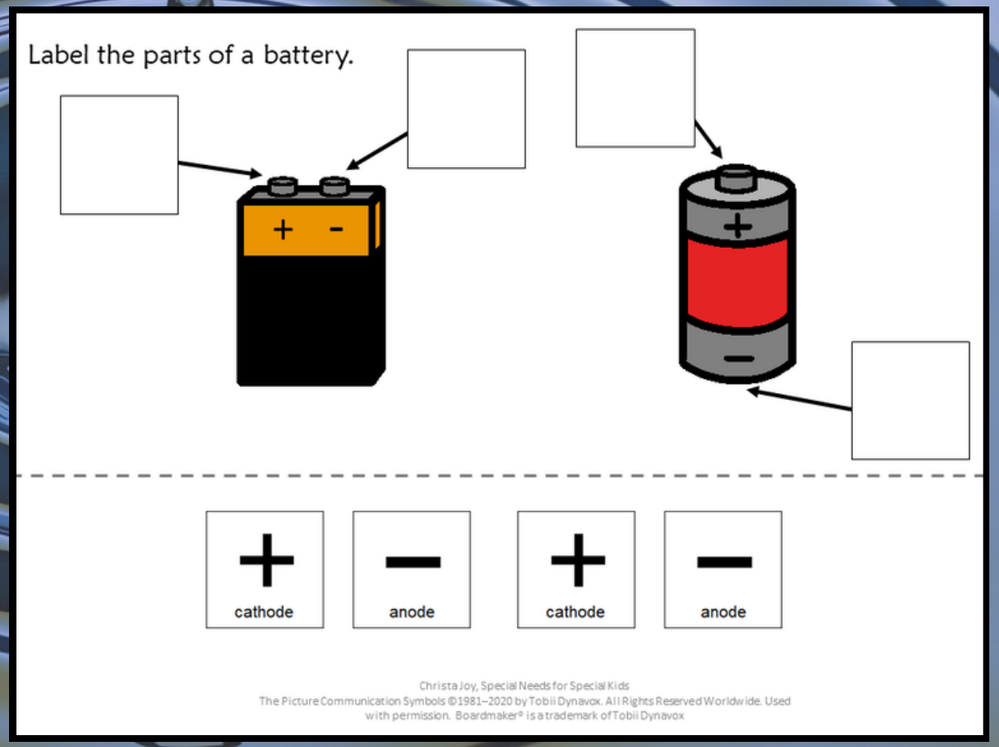
Each unit comes with 1 or more circle maps to visually review the main facts from the book. These come with an errorless option and an option with wrong answers mixed in.

sorting



The unit on the periodic table has sorting activities. There are suggestions for how to differentiate these quickly included.

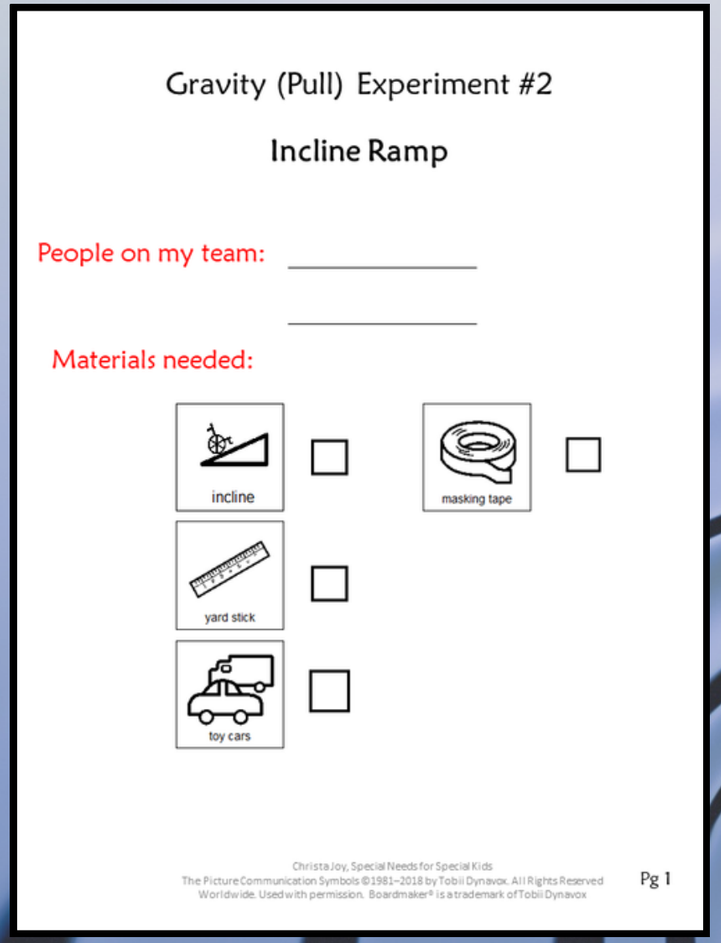




There are labeling and activities in both units. Suggestions for differentiation are included.

labeling

experiments


Gravity (Pull) Experiment #2

Incline Ramp

People on my team: _____

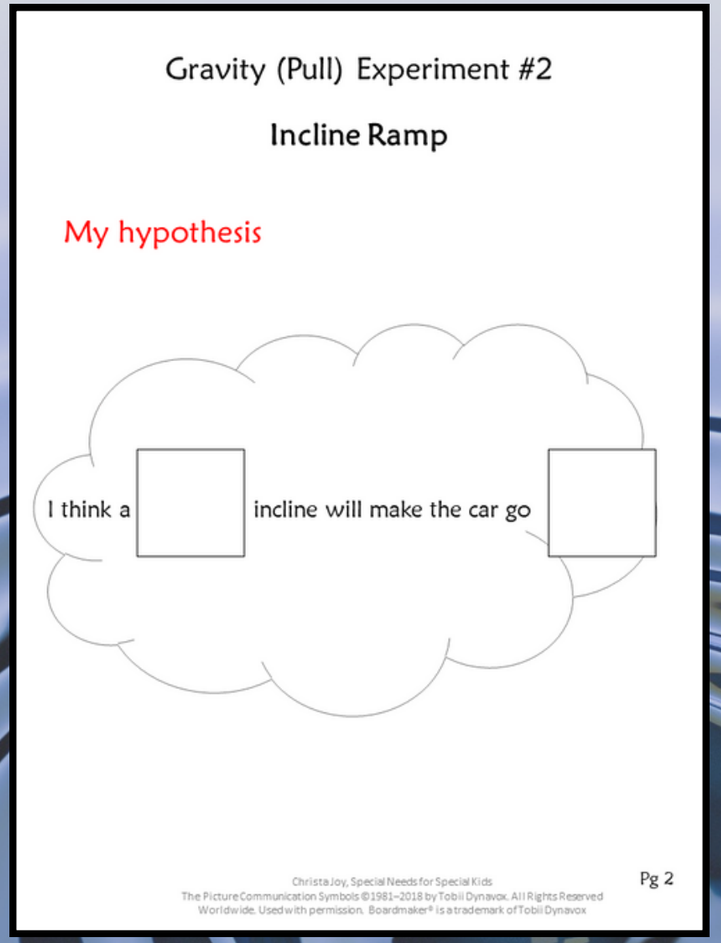
_____

Materials needed:

incline ☐ masking tape ☐

yard stick ☐

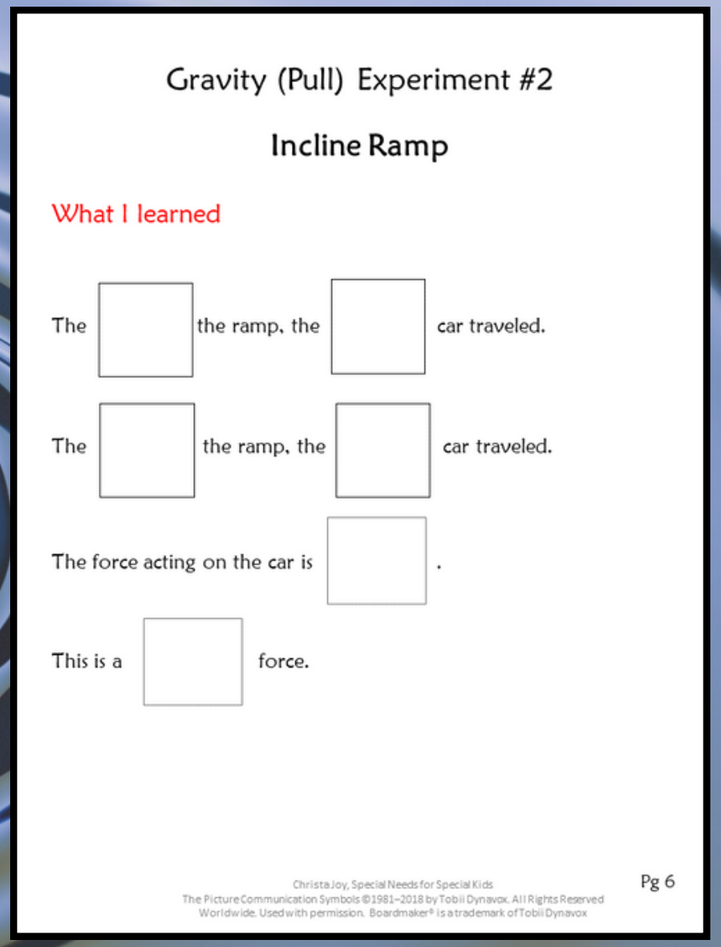
toy cars ☐


Gravity (Pull) Experiment #2

Incline Ramp

My hypothesis

I think a [ ] incline will make the car go [ ]


Gravity (Pull) Experiment #2

Incline Ramp

What I learned

The [ ] the ramp, the [ ] car traveled.

The [ ] the ramp, the [ ] car traveled.

The force acting on the car is [ ] .

This is a [ ] force.

The experiments walk students through the scientific method with lots of visual supports.

J2T

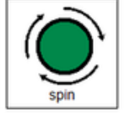
Review sheets

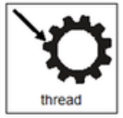
Each unit includes fill-in-the-blank worksheets to review concepts covered in the book and unit. Answer keys included.

Wheel and Axle

1. The axle is attached to the _____ of the wheel.
2. As the axel turns, it causes the wheel to _____ in a balanced circle.
3. Gears are special wheels that have _____.
4. Most forms of _____ use a wheel and axle.
5. _____ is an example of something that uses a wheel and axle.


transportation


spin

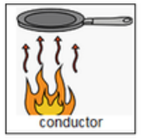

thread

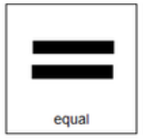

skateboard


doughnut

Effects of Heat

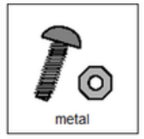
1. Heat can _____ an object.
2. When you apply heat to an object, it _____ the temperature.
3. Some objects heat up faster than others. Those that heat up faster and easier are good _____.
4. _____ is an example of a good conductor.
5. When two objects touch each other, they transfer heat until they both have _____ temperature.


conductor


equal

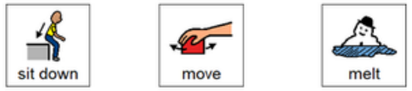

increases


change


metal

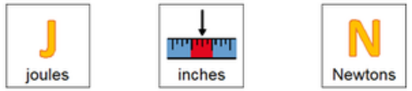
Version 1

1. A force is something that causes an object to:

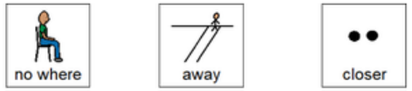


2. One of Newton's laws states that an object in motion, will stay in:

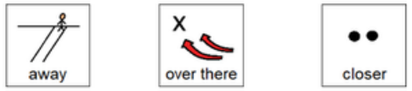
3. All forces are measured in :



4. A pushing force causes an object to move:



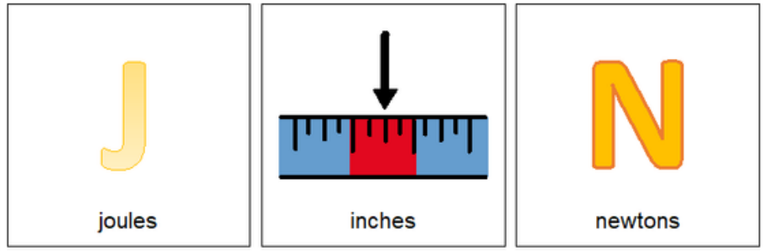
5. A pulling force causes an object to move:



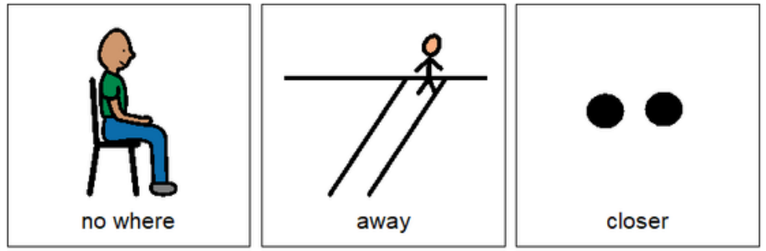
Version 2

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

Q 3



Q 4



Version 3

1. A force is something that causes an object to:
   A. Sit down
   B. Move
   C. Melt

2. One of Newton's laws states that an object in motion, will stay in:
   A. Motion
   B. At rest
   C. Swimming

3. All forces are measured in :
   A. Joules
   B. Inches
   C. Newtons

4. A pushing force causes an object to move:
   A. Sit down
   B. Away
   C. Closer

5. A pulling force causes an object to move:
   A. Away
   B. Over there
   C. Closer

Assessment

Finally, each unit has an assessment that is available in 3 versions. These are given 1:1 and read aloud to the student.

J2T

All of these units include digital versions of the activities. These simply require the student to click and drag the answers. There is no drawing or typing involved.

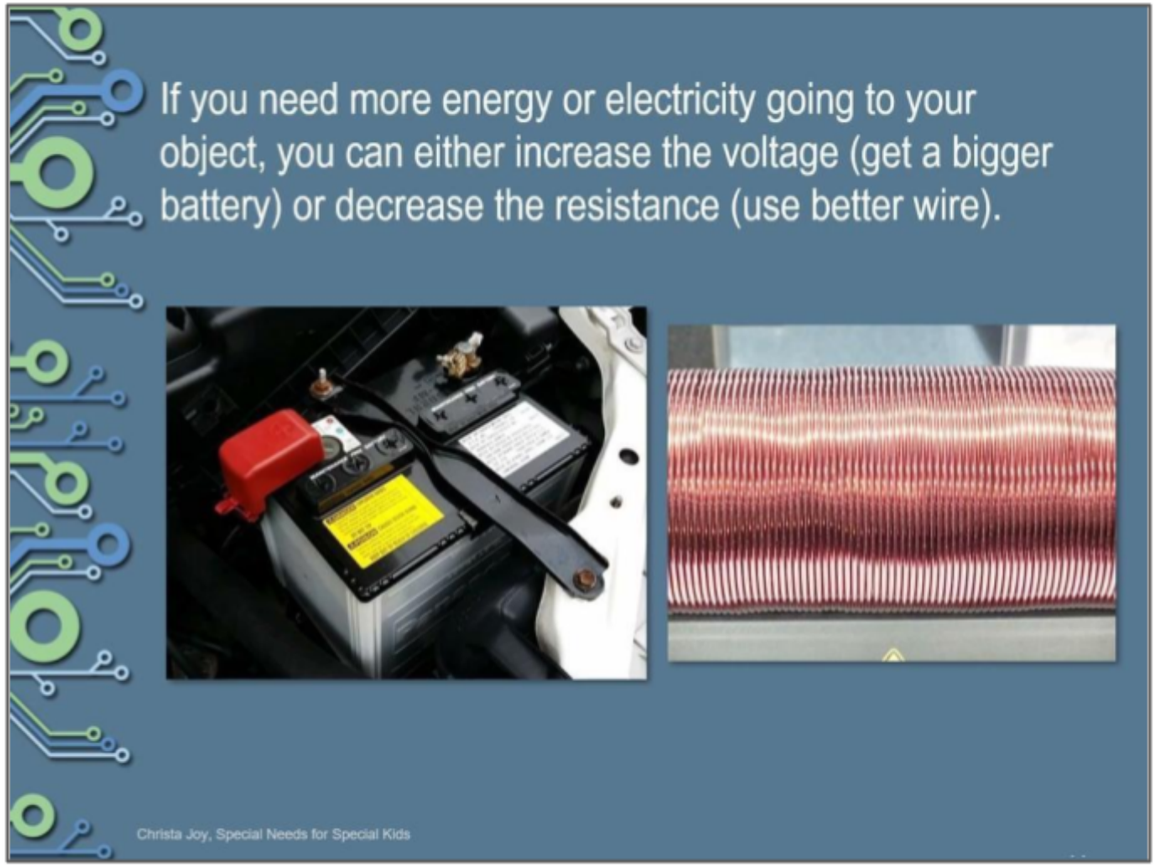
There is a movie version of the book.

There are 2 complete sets of slides. One set is differentiated with color.

Quickly combine slides from the 2 sets to create the perfect combination for each student.

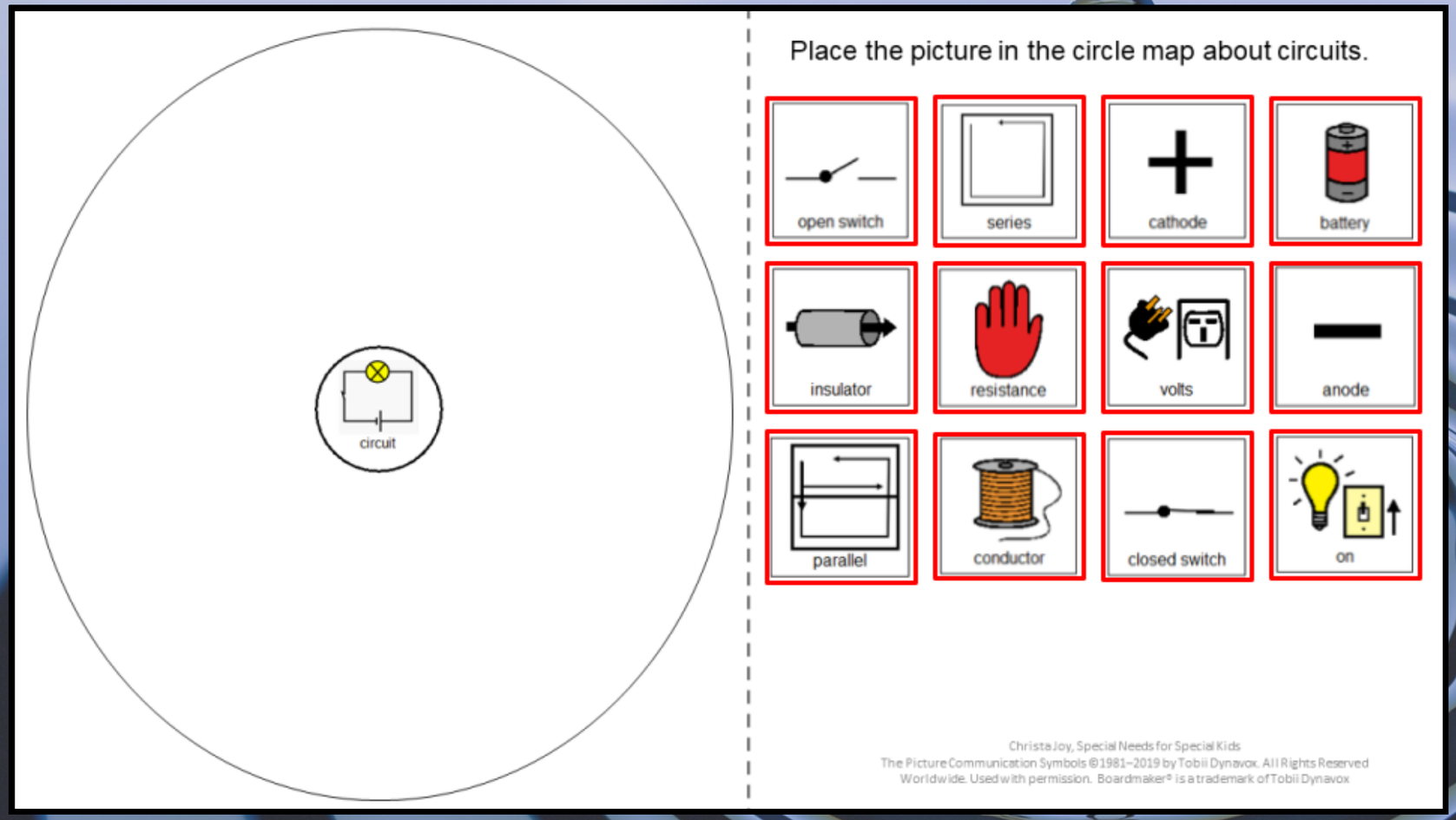
Make great independent learning centers.

Watch the movie on Electricity



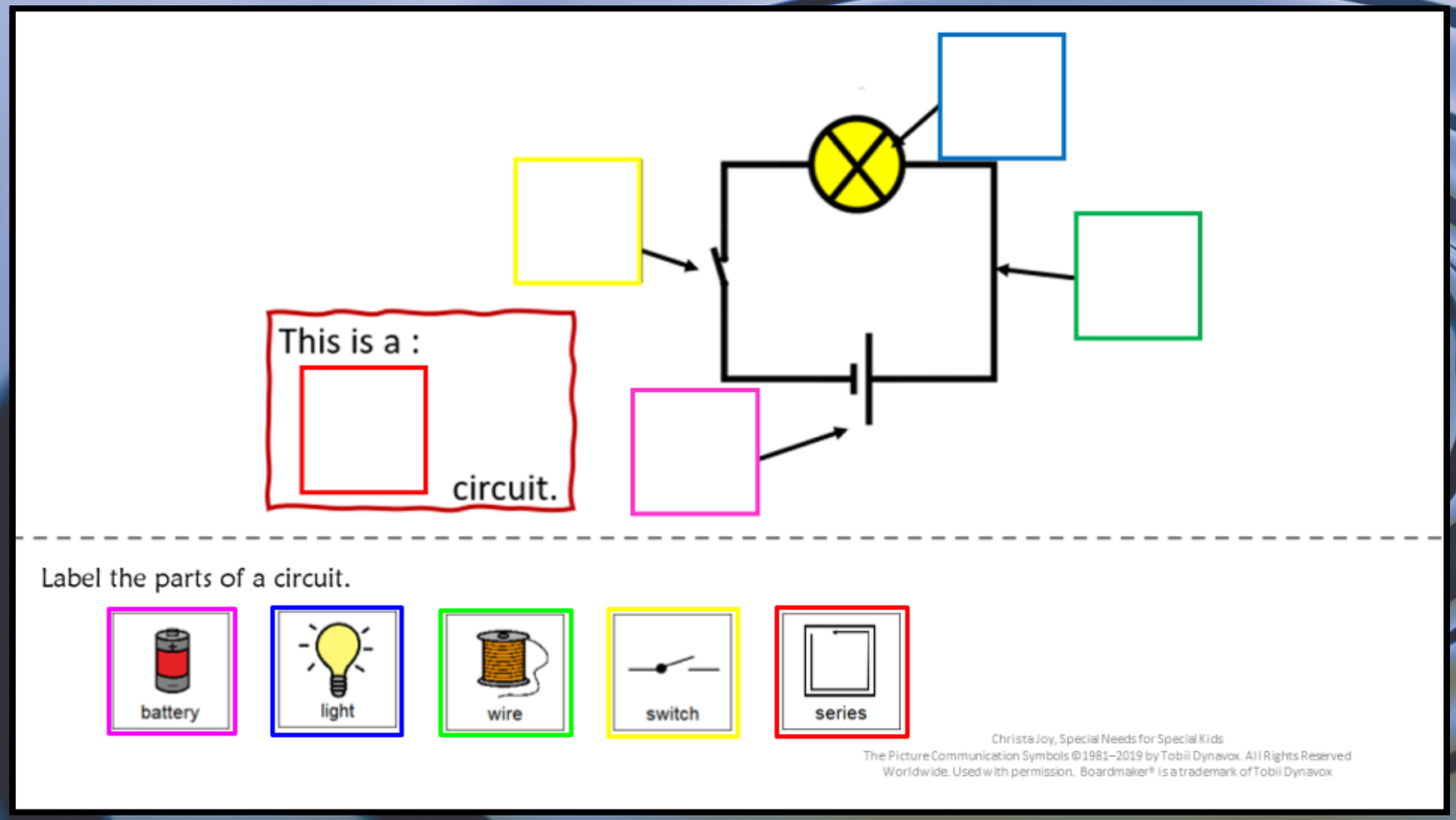
The movie version of the book from the unit.

Use for more review.



The digital activities are click and drag.

Perfect for any learning level.



Each unit comes with a set of slides that are differentiated with color.

Still have questions?

Reach out at specialneedsforspecialkids@gmail.com

I will answer your question personally and promptly.