

Special Ed

# TUNDRA BUNDLE

- 3 SCIENCE UNITS
- 1 NOVEL UNIT



*Special Needs for Special Kids*

**ALSO INCLUDES GOOGLE SLIDES**



This bundle includes resources created for students with significant challenges (like autism and ID) and most were **non-readers**. This is a great way to expose all students the same curriculum their peers are following.





*This bundle includes a mixture of science resources and a novel unit. It includes:*

- *Tundra Biome (3 weeks)*
- *Polar Bears (1 week)*
- *Reindeer (1 week)*
- *Magic Tree House: Polar Bears past Bedtime*

**All units have  
printable AND  
digital versions  
EXCEPT the  
novel unit.**



## Polar Bears 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
  - Also available as a recorded PowerPoint and video in the directions for digital activities pdf
- Fact sheet
  - Laminate or place in page protector

### Preassessment (do day 1 before starting lesson)

- Use the fact sheet 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/>
2. **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.
  - b. 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.
3. **Options for Use:** Turn any activity into a reusable file folder activity by laminating and adding Velcro.
  - a. For more info, watch this video here: <https://www.teacherspayteachers.com/Product/Making-File-Folder-Activities-3474240>

Each science unit comes with a lesson plan.

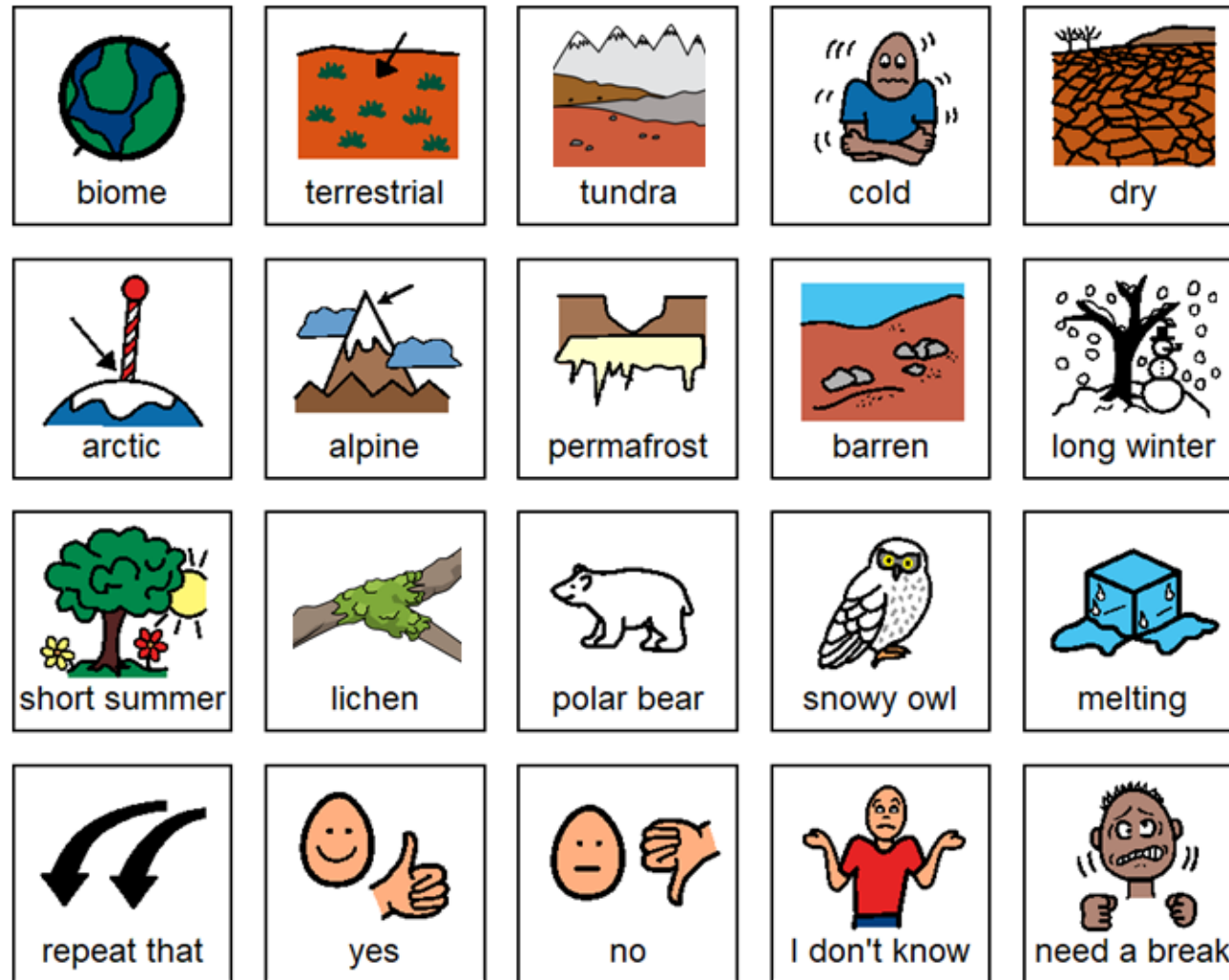
### Quick Look

Day	Activity
1	<ul style="list-style-type: none"> <li>• Book</li> <li>• Fact sheet</li> <li>• Vocab board activity</li> <li>• Circle map</li> </ul>
2	<ul style="list-style-type: none"> <li>• Book</li> <li>• Fact sheet</li> <li>• Vocab board activity</li> <li>• Habitat map</li> </ul>
3	<ul style="list-style-type: none"> <li>• Book</li> <li>• Fact sheet</li> <li>• Vocab board activity</li> <li>• Adaptions</li> </ul>
4	<ul style="list-style-type: none"> <li>• Book</li> <li>• Fact sheet</li> <li>• Vocab board activity</li> <li>• Venn Diagram</li> </ul>
5	<ul style="list-style-type: none"> <li>• Book</li> <li>• Fact sheet</li> <li>• Vocab board activity</li> <li>• Close worksheet</li> </ul>
6	<ul style="list-style-type: none"> <li>• Assessment</li> </ul>

### Day 5

Activity	Notes	Materials
Read the book: <b>Polar Bears</b> (10 minutes)	<ul style="list-style-type: none"> <li>• Read through the story, asking lots of questions</li> <li>• Continue to make connections between book and vocabulary board</li> </ul>	<ul style="list-style-type: none"> <li>• Book</li> <li>• Vocabulary board</li> </ul>
Fact sheet (5 minutes)	<ul style="list-style-type: none"> <li>• As a group read through the fact sheet on polar bears</li> </ul>	<ul style="list-style-type: none"> <li>• Fact sheet</li> </ul>
Vocabulary <b>Bean Bag Toss</b> (10 minutes)	<ul style="list-style-type: none"> <li>• Glue the cut apart symbols and tape to the paper plates (one on each plate)</li> <li>• Arrange them around the room</li> <li>• Students toss the bean bag trying to get it to land on a paper plate</li> <li>• Students retrieve the paper plate and share the vocabulary symbol they retrieved</li> </ul>	<ul style="list-style-type: none"> <li>• Vocabulary board</li> <li>• Vocabulary board cut apart</li> <li>• Small paper plates (you can also use pieces of construction paper)</li> <li>• Bean bags</li> </ul>
Close worksheet (10 minutes)	<ul style="list-style-type: none"> <li>• Complete the close worksheet that reviews the facts from the book</li> <li>• Add color coding as needed</li> <li>• Review any facts that are missed before assessment tomorrow, or go back and do some re-teaching if needed</li> </ul>	<ul style="list-style-type: none"> <li>• worksheet</li> <li>• scissors</li> <li>• glue</li> </ul>
Sharing (10 minutes)	<ul style="list-style-type: none"> <li>• Each student shares their finished map with the group using the communication method of their choice</li> </ul>	<ul style="list-style-type: none"> <li>• Completed worksheet</li> <li>• Communication devices</li> </ul>





Every unit in the bundle comes with a vocabulary board. These are vital for increasing engagement and participation. Suggestions on how to utilize them are included in each unit.



You will find a lot of **lichen** growing in this region. Lichen is an organism that is made up of a fungus plus an algae that grow together as one plant.



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Besides the fur, polar bears also have extra wide feet that have fur on the bottom that keep them warm and provide traction on the snow and ice. The toes are slightly webbed as well which help propel the bear through the water.



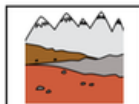

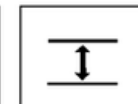
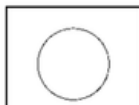
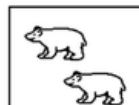





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Each science unit comes with a book in PowerPoint and mp4 formats. They have simple text and engaging photos and contain all the information your students will need to complete the activities.



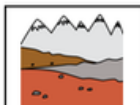

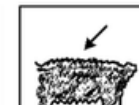

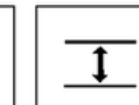
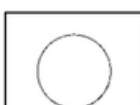









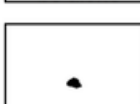
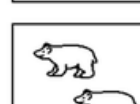



errorless

Cut apart pictures and place in circle map showing facts about polar bears.

 live in tundra	 furry feet	 2 layers of fur	 black skin	 layer of fat
 white	 cubs	 females hibernate	 eat seals	 size of 2 lions
 like to be alone	 hunt on ice	 don't drink water	 good swimmers	 biggest land meat-eater



Cut apart pictures and place in circle map **ONLY IF** they relate to polar bears.

 live in tundra	 furry feet	 2 layers of fur	 black skin	 layer of fat
 white	 desert	 females hibernate	 eat seals	 size of 2 lions
 like to be alone	 hunt on ice	 don't drink water	 feathers	 biggest land meat-eater
 tiny	 cubs	 eat bananas	 good swimmers	 brown

Each unit comes with circle maps to review the main facts from the book. There is an errorless version and a version with wrong answers mixed in.



Color in the area of the alpine tundra.



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There is a mixture of other activities including group activities.

If the picture relates to a reindeer, glue a picture of a reindeer in the box.



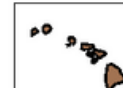
antlers



feathers



Alaska



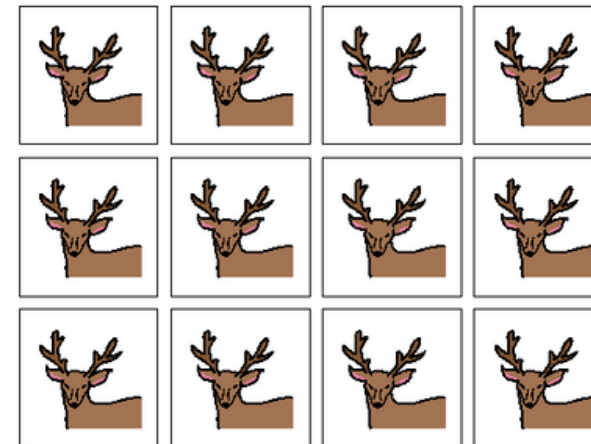
Hawaii



fast



swim



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If the picture relates to a reindeer, glue a picture of a reindeer in the box.



eggs



fawn



desert



tundra

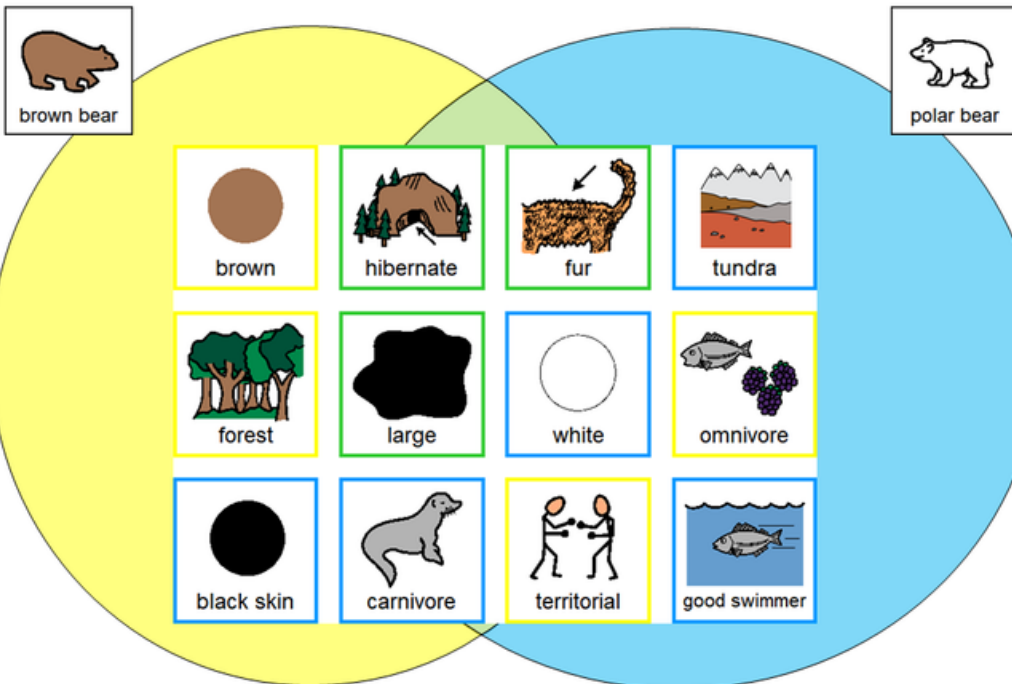


caribou



fur

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# Each unit has fill-in-the-blank worksheets for review.

## Tundra

1. The tundra gets very little  or .
2. The  is a layer just under the surface that stays frozen.
3. The arctic tundra is located near the .
4. The alpine tundra is located on .
5.  are very short in the tundra.



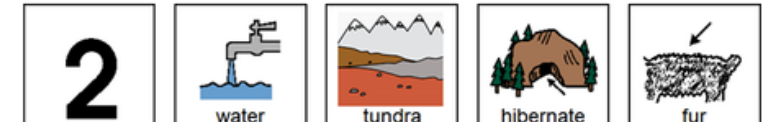
## Plants in the Tundra

1. The tundra is very  with no .
2. Plants that do grow here are .
3.  are plants that come back each year from the same root.
4. You will find a lot of  here which is a combination of fungus and algae.
5. There is very little  in the tundra.



## Polar Bears

1. Polar bears live in the .
2. Polar bears have  layers of fur to keep warm and dry.
3. Only female polar bears  when pregnant.
4. Polar bears have  on their feet to help grip the snow.
5. Polar bears do not drink .

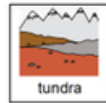




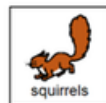
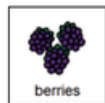
# There is an assessment that comes in 3 versions.

Version 1

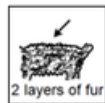
1. Where do polar bears live?



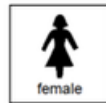
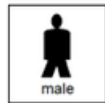
2. What do polar bears eat?



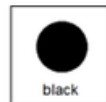
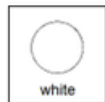
3. How do polar bears stay warm?



4. Are male or female polar bears bigger?



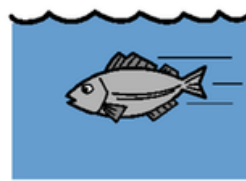
5. What color is a polar bear's skin?



Version 2

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

Q 7



swim



hunt



hibernate

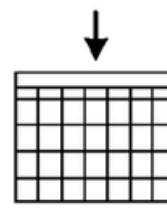
Q 8

2

years



summer



one month

Version 3

1. Where do polar bears live?

- A. Forest
- B. Tundra
- C. Desert

2. What do polar bears eat?

- A. Berries
- B. Squirrels
- C. Seals

3. How do polar bears stay warm?

- A. 2 layers of fur
- B. Feathers
- C. In a cave

4. Are male or female polar bears bigger?

- A. Male
- B. Female
- C. I don't know

5. What color is a polar bear's skin?

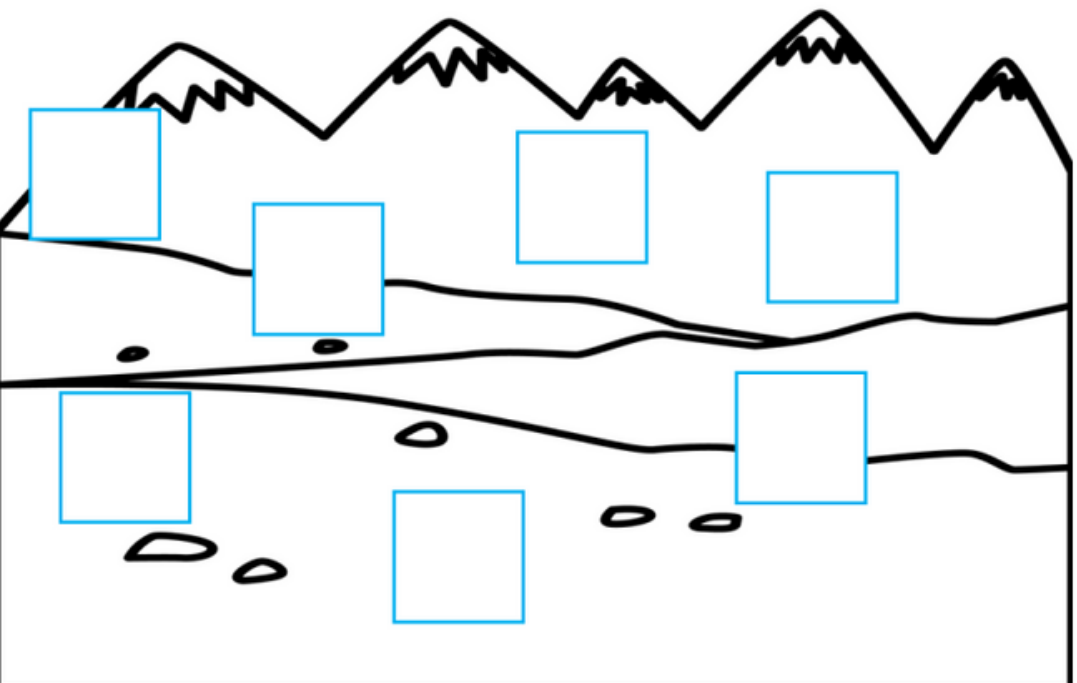
- A. White
- B. Gray
- C. Black

6. What is the only real threat to polar bears?

- A. Moose
- B. Killer whale
- C. Getting too warm



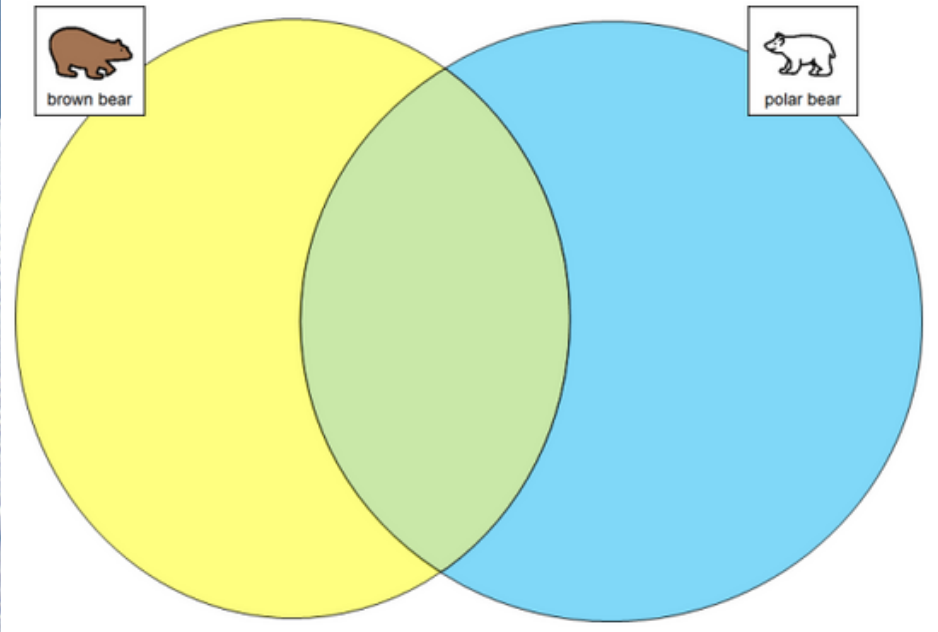
Animals



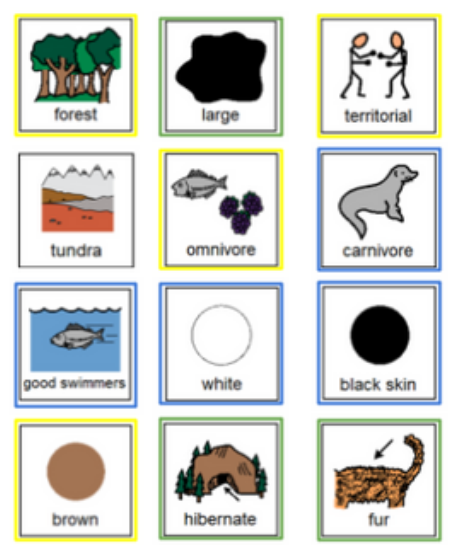
Place in the pictures in the empty boxes to show animals that live in the tundra.



Brown bears and Polar bears



Place in the pictures in the correct location on the Venn diagram.



The science units come with digital activities as well. There are 2 sets of google slides. One is differentiated with color-coding for more support.

Make great independent work centers!!



The area of the Arctic and the area of the desert are very different. Sort the characteristics of each area.



Sort the pictures depending on whether you think they are about the arctic or the desert. If you are not sure, place it in the middle line.

 polar bear	 beetle	 snowing	 no rain	 walrus
 sea lion	 scorpion	 no people	 penguin	 sand
 cactus	 killer whale	 lizard	 snake	 freezing
 Northern Lights	 camel	 hot	 fishing	 dry

1. What did Morgan send to tell Jack and Annie to come to the treehouse?



2. What did Jack and Annie wear to the treehouse?



3. Where do Jack and Annie go on this adventure?



4. Who is there to meet them when the treehouse lands?



5. What did the seal hunter give Jack and Annie?



The novel unit is from the Magic Tree House series, Polar Bears past Bedtime.

There are 11 activities (1 for each chapter) and 15 comprehension questions.

This is the only unit that is NOT digital.



I also have a resource that is an overview of the 4 terrestrial biomes

- Forests
- Grasslands
- Desert
- Tundra

**CLICK HERE**



I also have a unit on Saltwater and Freshwater Ecosystems

**CLICK HERE**

