

WINTER Science Units

Penguins, Polar Bears & Winter

Labeled Parts of a SNOWFLAKE

snow cloud

crystal

column

plate

star

dendrite

snowflake

If I Were a PENGUIN

My favorite place: The ocean water

My favorite food: fish and squid

My favorite game: swimming

Something I like to do: swimming, sliding, ice cream, bath, and play hockey!

About AR BEARS

POLAR BEAR Habitat

POLAR BEAR Appearance

ARCTIC Animals

Labeled Diagram of PENGUIN

eye

yellow patch

black back

feathers

tail

claws

webbed-feet

white belly

flipper

beak

Activities

Lessons

Vocab

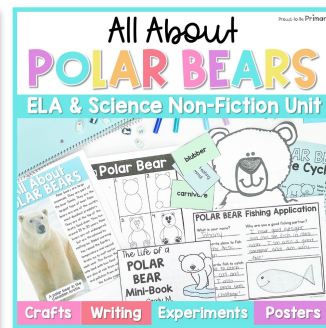
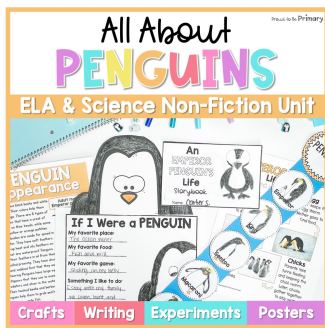
Posters

WINTER Science Units

3 Complete Units

What is Included in this Winter Bundle:

- ♥ 3 all-in-one non-fiction units that incorporate science and ELA
- ♥ Themed units for penguins, polar bears, and winter
- ♥ Common Core aligned
- ♥ Suggested book lists
- ♥ Thematic vocabulary cards
- ♥ Vocabulary posters
- ♥ KWL & Schema charts
- ♥ Reading comprehension passages & fact posters
- ♥ Life cycle books, activities, and posters
- ♥ Observation journals
- ♥ Craft & writing for each unit
- ♥ Directed drawing
- ♥ Research project templates
- ♥ Writing prompts
- ♥ Labeled diagrams activities



WINTER Science Units

What is Included in Each Unit

Fact Posters & Question Sheets

All About POLAR BEARS Name: _____

Directions: After reading the 'All About Polar Bears' fact poster, answer the questions below in a separate sheet of paper.

- Look at the photo. Describe the polar bear's hunting strategy.
- How many years do polar bears live?
- Why are polar bears threatened?
- How can you help reduce global warming?

POLAR BEAR Hunters

Polar bears are deadly hunters. They hunt alone and travel far looking for prey. Female polar bears will live and hunt with their cubs. Their white fur helps them camouflage. Polar bears hunt mostly seals. They also hunt birds, walrus, and whales. Polar bears use their excellent senses to hunt. They can smell seals miles away. They can also see in the light or dark. Polar bears wait for their prey near openings in the ice. They attack when their prey comes up to breathe.

A polar bear hunting for prey in the water.

Fact Finding Activities

WINTER Facts

1. _____

2. _____

3. _____

4. _____

Write a sentence about WINTER: _____

Name: _____

about WINTER

Sort into the correct category.

weather _____ animals _____

celebrations _____

about WINTER

Sort into the correct category.

weather _____ animals _____

celebrations _____

Life Cycle Posters & Activities

EMPEROR PENGUIN Life Cycle

Mating
Mature penguins meet at the breeding grounds to mate.

Egg
Father keeps the Egg Warm. Mother goes to find food.

Chicks
Parents take turns feeding and keeping the chick warm. Later, chicks gather together to stay warm.

Fledglings
Fledglings take care of themselves.

cloud

ate

umn

drite

Vocabulary Activities & Posters

Penguin Words to Match to Definitions

Definition & Word Match Activity Cards

The way that _____ winter is changed

preening

Penguins groom themselves to make sure their feathers stay well oiled and waterproof.

hat

small snowball

twigs

large snowball

Mini-Books

A POLAR BEAR'S LIFE

The Life of a POLAR BEAR Mini-Book

The Life Cycle of a POLAR BEAR

The Life Cycle of a POLAR BEAR

The Life Cycle of a POLAR BEAR

Labeled Diagram Posters & Templates

Labeled Diagram of a SNOWMAN

Parts of a Snowflake

hat

small snowball

twigs

large snowball

coal eyes

carrot nose

medium snowball

scarf

buttons

cloud

ate

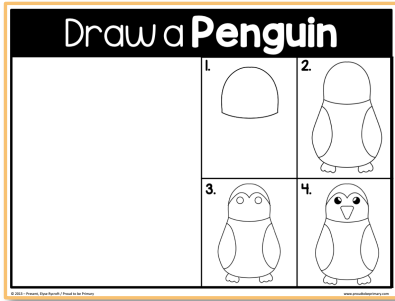
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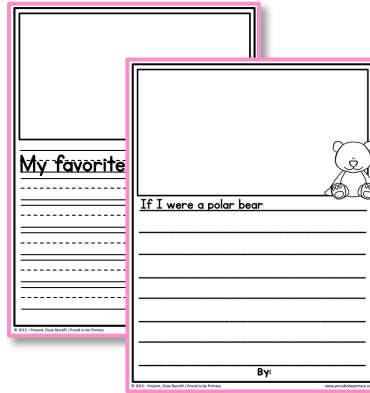
WINTER Science Units

What is Included in Each Unit:

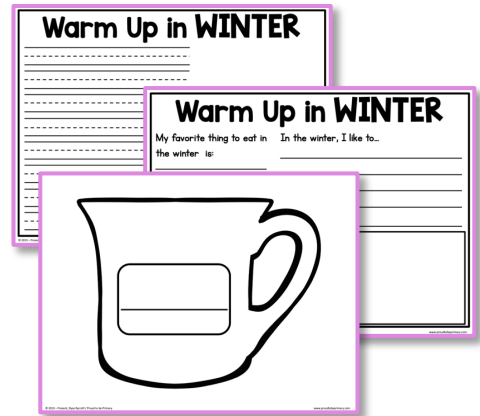
Directed Drawings



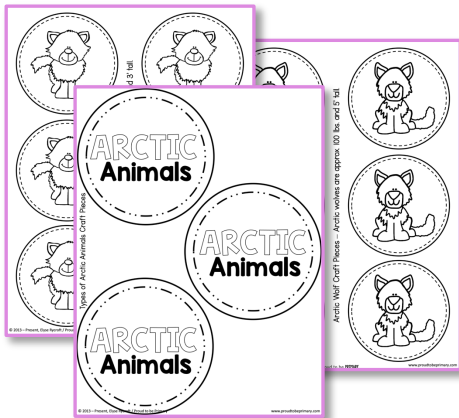
Writing Prompts



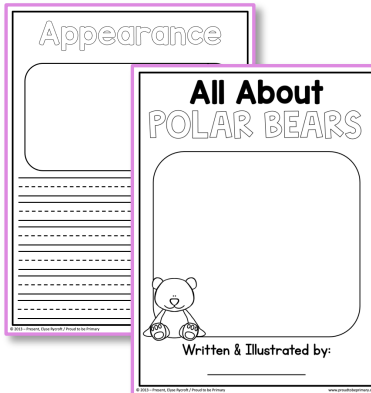
Writing and Crafts



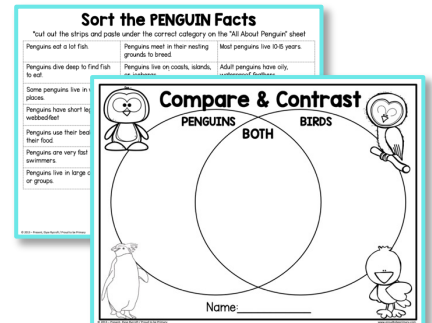
Types of Animal Craft



Research Templates



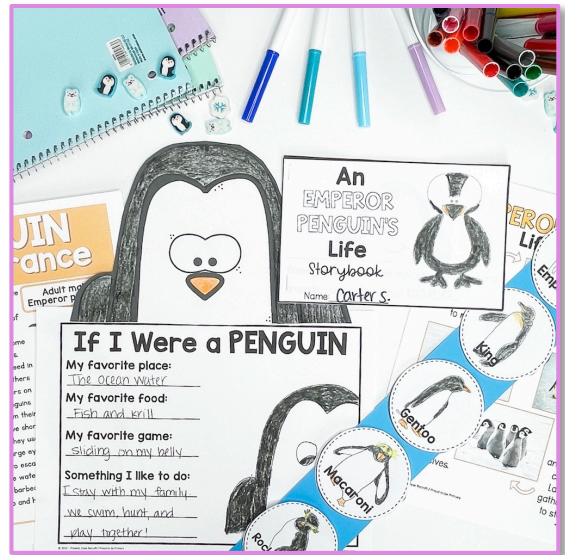
Compare & Contrast Activities



Why You Need These

WINTER Science Units

- This one bundle includes units to teach non-fiction topics for polar bears, penguins, and winter, 3 complete units are included!
- Real facts are presented in a fun, engaging way with photographs.
- This bundle saves you time as it comes with print-and-go activities and everything you'd need to teach winter life sciences.
- These units facilitate meaningful lessons and discussions about tons of different topics with vocabulary and facts.
- Build oral reading fluency and comprehension skills with the included stories and ELA activities.
- Easily display, teach, and organize the facts and vocabulary with anchor chart materials.
- Use the included tools to facilitate a fun research project with each unit!

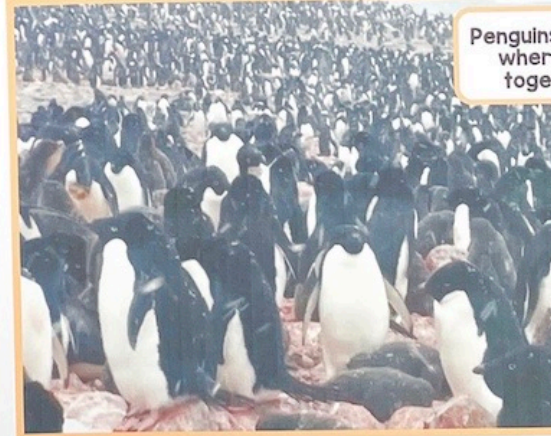


Teachers Love **WINTER** Science Units

Claire M.



My students were so engaged with the Penguin Unit of Study. It aligned perfectly with my districts nonfiction unit. My kinders loved learning all about penguins!



Our winter units are enjoyed in thousands of classrooms worldwide!

WINTER Science Units


Proud to Be Primary

Fact Posters & Question Sheets

Each unit includes student-friendly fact posters packed full of vocabulary and facts for each unit. Each fact poster also includes a question sheet that can be used as a comprehension activity after reading the posters.

All About PENGUINS

Penguins are birds that do not fly. They waddle to get around. There are 17 kinds of penguins in the world. Penguins lay 1 to 2 eggs at a time. Most penguins live 10-15 years, while Emperor penguins live longer. Penguins eat a lot of fish, squid, and krill. They dive deep into the water or under the ice to find food and use their beaks to catch their food. Penguins are very fast swimmers.



Humboldt penguin under the water.

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All About Name: _____
PENGUINS

Directions: After reading the 'All About Penguin' fact poster, answer the questions below in complete sentences.

- 1 Look at the photo. Describe what you see.

- 2 Why do penguins use their beaks to break ice?

- 3 How do penguins get around?

- 4 Have you ever seen a penguin swim in water?

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PENGUIN Habitat

Penguins live between the Equator and the South Pole, or the icebergs. Some live in Antarctica, the coldest place on earth. Some penguins live in warm places like New Zealand and Australia. Penguins spend their lives in the water. They form large groups, called colonies. A colony consists of hundreds or millions of penguins. They live close to other penguins, where they can protect each other.

All About PENGUINS

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PENGUIN Emperor

Emperor penguins have black backs and white bellies. They help them stay warm in the cold. They have 6 types of feathers: soft feathers on their heads, stiff feathers on their wings, and long feathers on their tails. They have short necks and they use their large eyes to see in the dark. They have long beaks to catch their food and to hold their eggs.

African penguins on the coast of South America.



Humboldt penguin diving under the water.

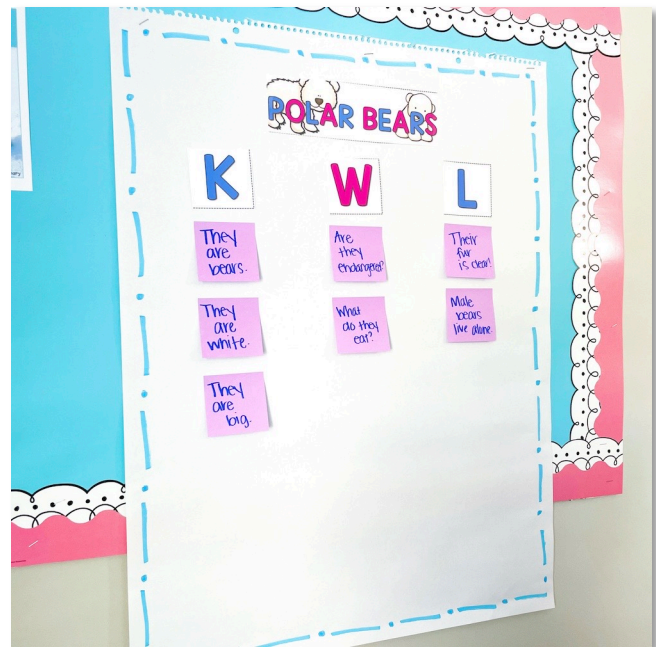
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WINTER Science Units

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KWL Posters & Activities

Build background knowledge and discuss facts you've learned with the KWL chart pieces and student activities. Pages include large boxes which can easily be differentiated with the use of writing or drawing.



WINTER Science Units

Proud to Be Primary

Vocabulary Posters & Activities

Colorful real life pictures are included on the vocabulary posters that are great for displaying around the classroom. Allow your students to complete the vocabulary activities during center time too.

Polar Bear Words to Match to Definitions

Arctic	A very cold area around the North Pole.	The fat layer under a polar bear's skin that keep them warm.
carnivore	A meat-eating mammal.	A baby polar bear that is birthed by a female polar bear.

Definition & Word Match Activity Cards

global warming



An increase in the world's temperature has caused sea ice and polar bear habitats to melt in the Arctic. It is caused by an increase in pollution.



hibernation

Some animals go into hibernation through...



flake

Snowflakes are snow or ice or form when it freezes into ice falls through the ground. Snowflakes many different shapes.



migration

Some animals migrate and move to other areas in winter. Birds fly south to warmer regions where there is food to eat.

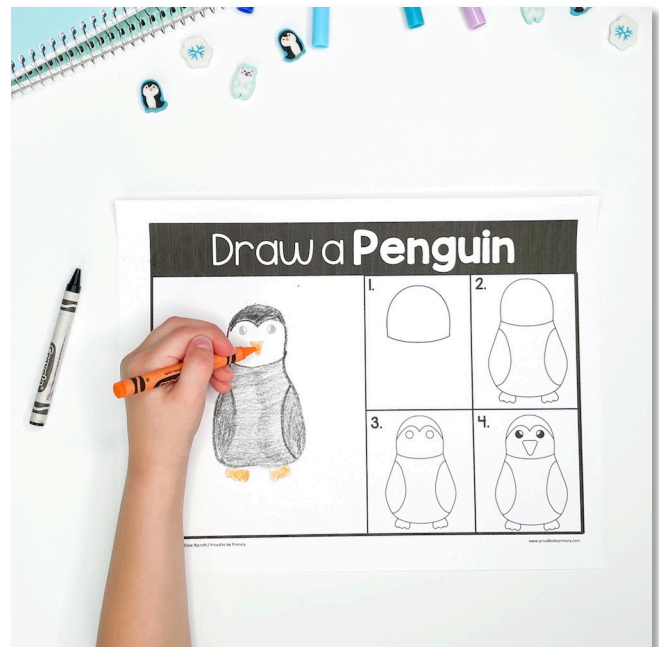


WINTER Science Units

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Directed Drawing Activities

There is a fun directed drawing included for to go along with the topic: penguin, polar bear, and winter. There are templates included with either a 4 or 6 steps on the page. These kid-preferred activities work great as a center activity!



WINTER Science Units

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Life Cycle Booklets, Posters, & Activities

Teach students the important life cycle of the animal, insect, or plant life. Life cycle posters, activities, and booklets are included to help you teach. Easy to display vocabulary and a student friendly craft make discussing each life cycle exciting for kids.



WINTER Science Units

Proud to Be Primary

Printable Student Booklets

Units include an assortment of booklets to help kids learn and review important facts. There are life cycle booklets, observation journals, and storybooks. Each booklet encourages students to color, fill in words, and make each booklet their own.

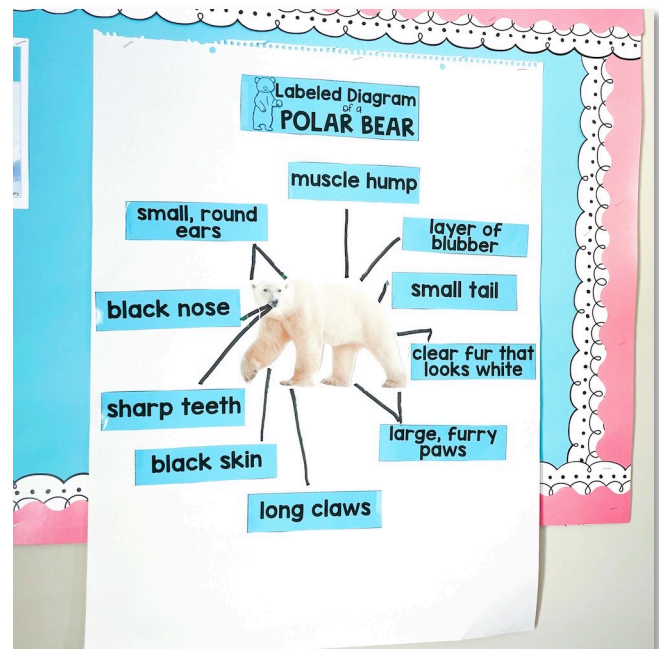
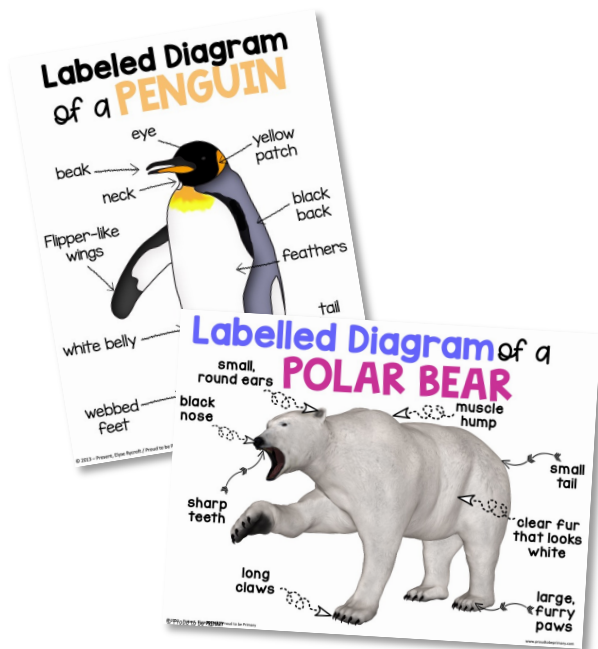


WINTER Science Units

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Labeled Diagrams

It's important to teach kids in-depth understanding of a topic. You can accomplish this with the labeled diagram materials included in each unit. Create a labeled diagram anchor chart or display the poster in your classroom, while your students fill in their own page to learn the parts.

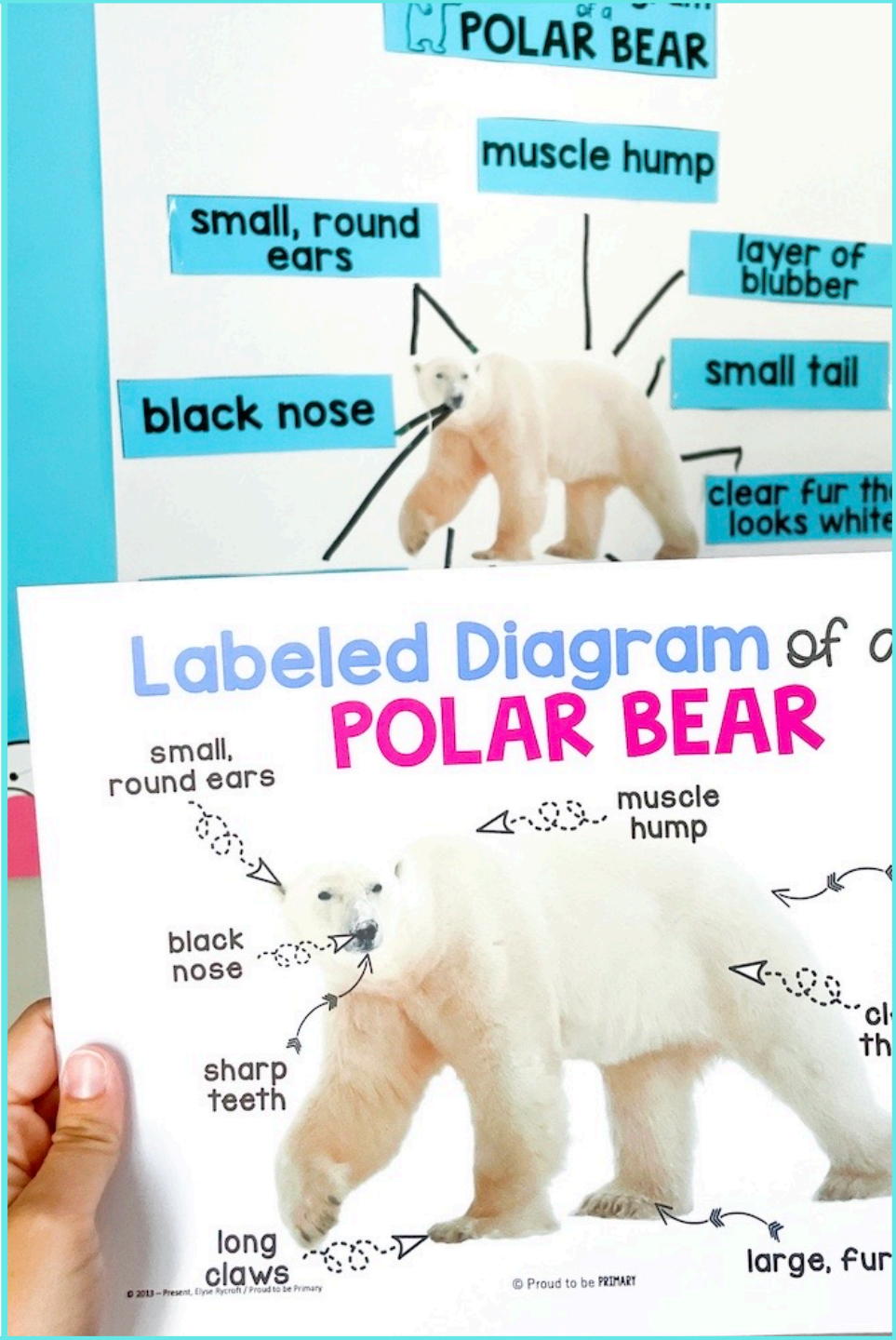


Use these

WINTER

Units for...

- ♥ Whole group science lessons
- ♥ Small group instruction
- ♥ Partner activities
- ♥ Non-fiction research projects
- ♥ Library projects
- ♥ Seasonal unit studies
- ♥ Sub-plans
- ♥ & more!



Teachers Love WINTER Science Units

small, round ears

muscle hump

layer of blubber

small tail

Judith M.



This is a great winter unit! I found the material to be engaging and informative! Perfect for my first graders!

round ears

muscle hump

small tail

black nose

clear fur that looks white

sharp th

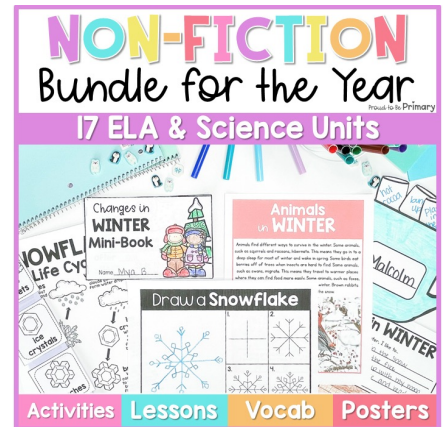
large, furry paws

Our winter units are enjoyed in thousands of classrooms worldwide!

More to Help You Teach non-fiction

with Proud to Be Primary

Grab this bundle of 17 complete non-fiction life units to use ALL YEAR LONG!



Grab this spring bundle to teach these 4 spring life science topics.

Click on an image to learn more about the non-fiction and science resources available!