INCLUDED IN THIS BUNDLE:

+

This bundle includes the complete printable Plant & Animal NGSS unit

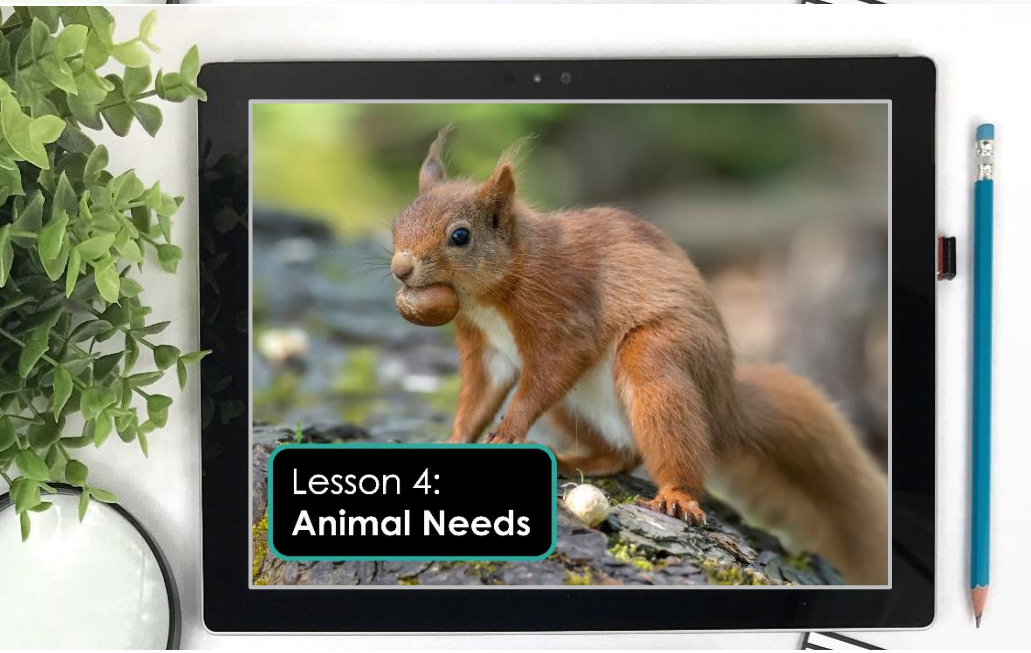
AND the digital Plant & Animals add-on unit with narrated teaching slides and student activities on Google Slides

THE FOLLOWING SLIDES SHOW WHAT IS INCLUDED IN EACH UNIT

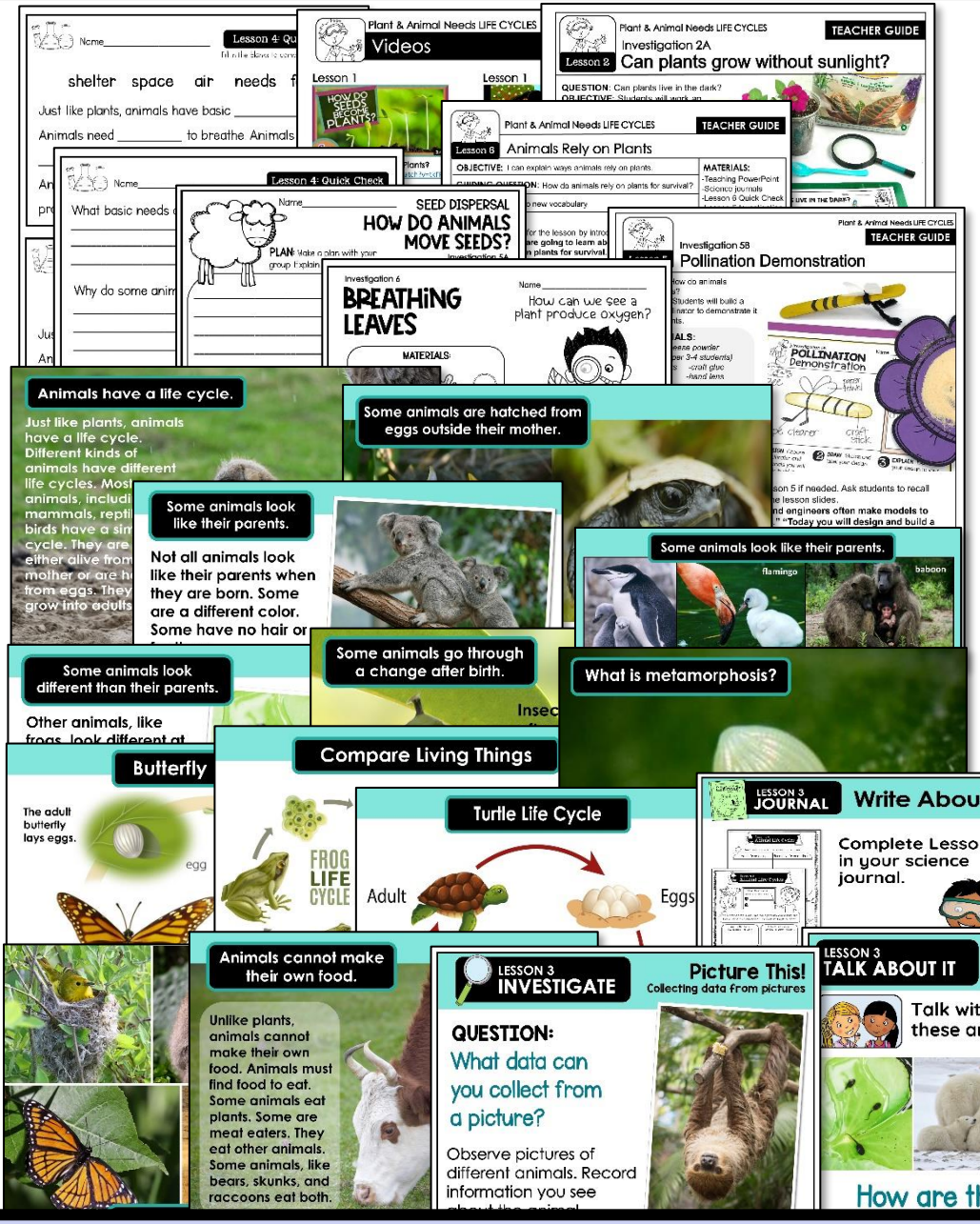
TEACHING POWERPOINT

6 ENGAGING LESSONS

- Plant Life Cycles
- Plant Needs
- Animal Life Cycles
- Animal Needs
- Plants Rely on Animals
- Animals Rely on Plants



EACH LESSON INCLUDES:



- Detailed, scripted lesson plan
- PowerPoint lesson
- Science journal activity
- Hands-on investigation/lab
- Exit tickets in 2 formats
- Vocabulary posters
- Objectives display cards
- Turn & talk partner questions
- Read aloud & video links
- Science center activity

SAMPLE LESSON

Aligned to

Next Generation Science Standards, TEKS

and

Common Core State Standards

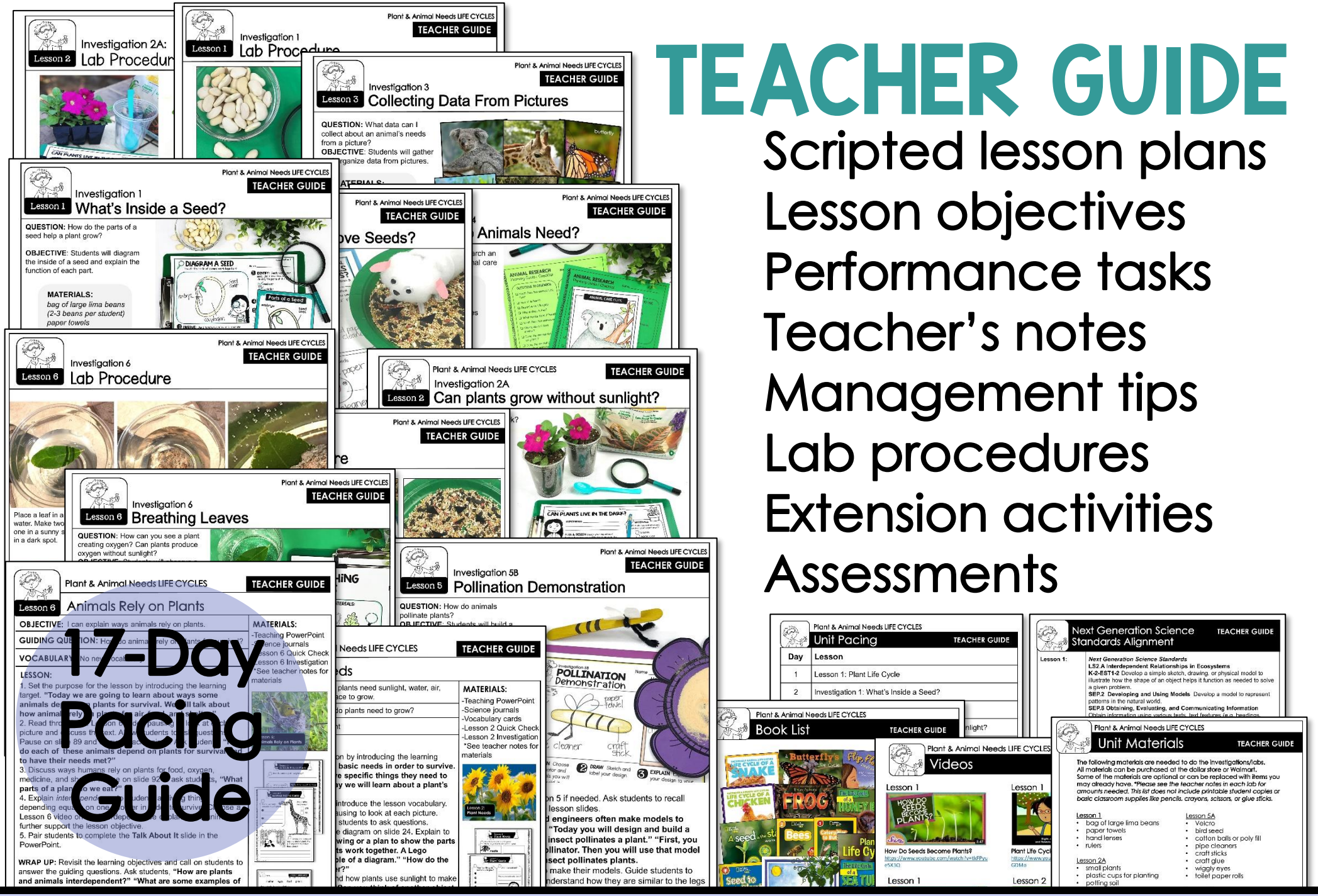
for 2nd Grade

STANDARDS-ALIGNED

TEACHER GUIDE

Scripted lesson plans
Lesson objectives
Performance tasks
Teacher's notes
Management tips
Lab procedures
Extension activities
Assessments

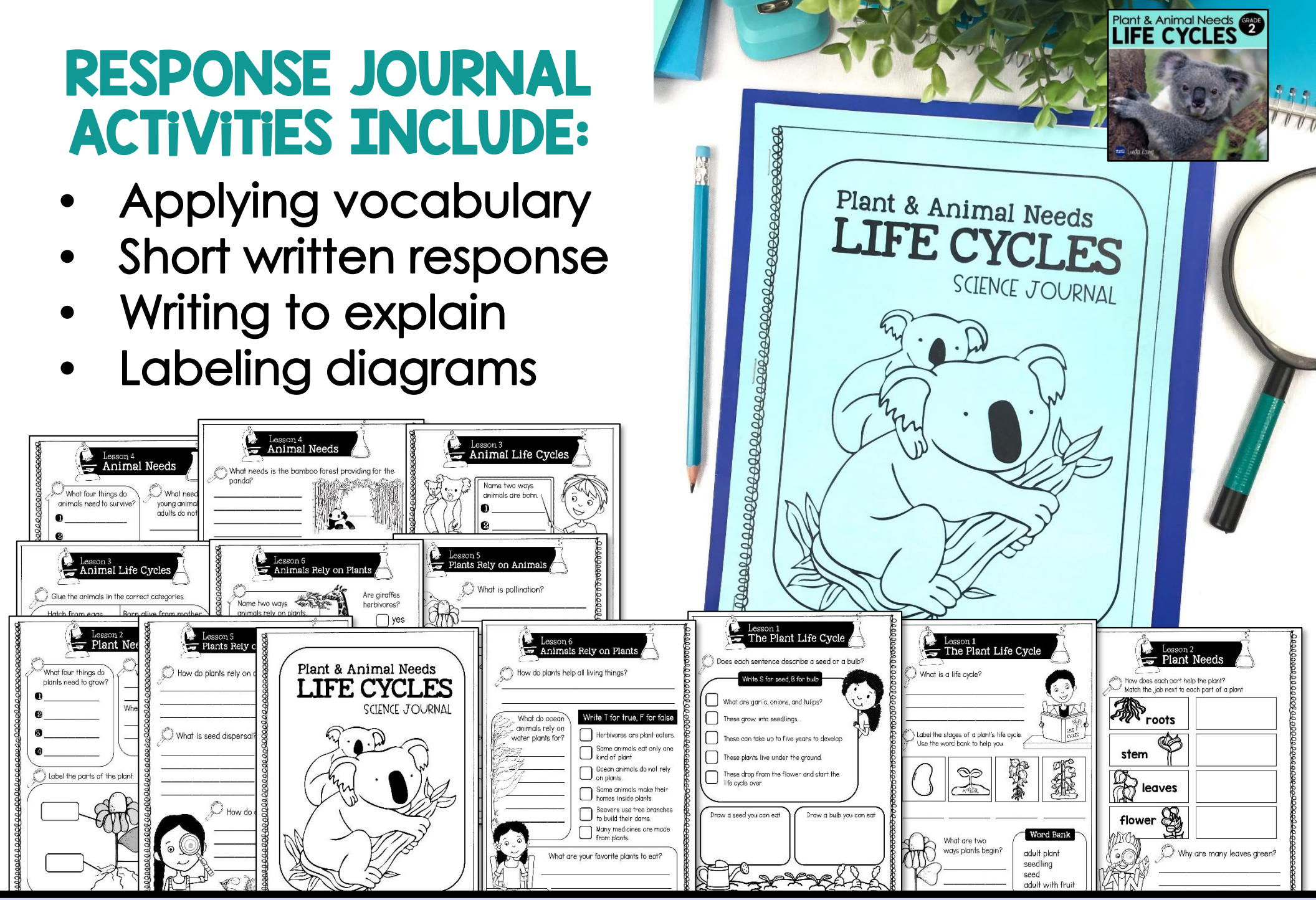
17-Day Pacing Guide



DETAILED LESSON PLANS

RESPONSE JOURNAL ACTIVITIES INCLUDE:

- Applying vocabulary
- Short written response
- Writing to explain
- Labeling diagrams



LESSON RESPONSE JOURNAL

HIGH-ENGAGEMENT LESSONS

STUDENTS DISCUSS, WRITE & INVESTIGATE

LESSON 6 TALK ABOUT IT — Animals Rely on Plants

Talk with your partner about ways animals depend on plants.

LESSON 6 JOURNAL — Write About It

LESSON 5 TALK ABOUT IT — Plants Rely on Animals

LESSON 5A INVESTIGATE — How Do Animals Spread Seeds?

LESSON 4 JOURNAL — Write About It

LESSON 4 INVESTIGATE — What Do Animals Need?

LESSON 3 INVESTIGATE — Picture This! Collecting data from pictures

QUESTION:

LESSON 3 TALK ABOUT IT — Animal Life Cycles

Talk with your partner about these animal life cycles.

LESSON 2B DEMONSTRATE — How Do Plant Parts Work Together?

QUESTION:

How does water

LESSON 2 TALK ABOUT IT — Plant Needs

LESSON 3 JOURNAL — Write About It

LESSON 1 JOURNAL — Write About It

LESSON 1 TALK ABOUT IT — Plant Life Cycle

Talk with your partner about how a seed protects the new plant.

How do bulbs protect a new plant?

LESSON 2A INVESTIGATE — What do plants need to grow?

QUESTION:

Can plants grow in the dark?

Design an experiment to test if plants can grow without sunlight.

LESSON 6 INVESTIGATE — How do plants create oxygen?

QUESTION:

How can you show a plant creating oxygen?

Plants create oxygen for

LESSON 5B INVESTIGATE — Pollination Power

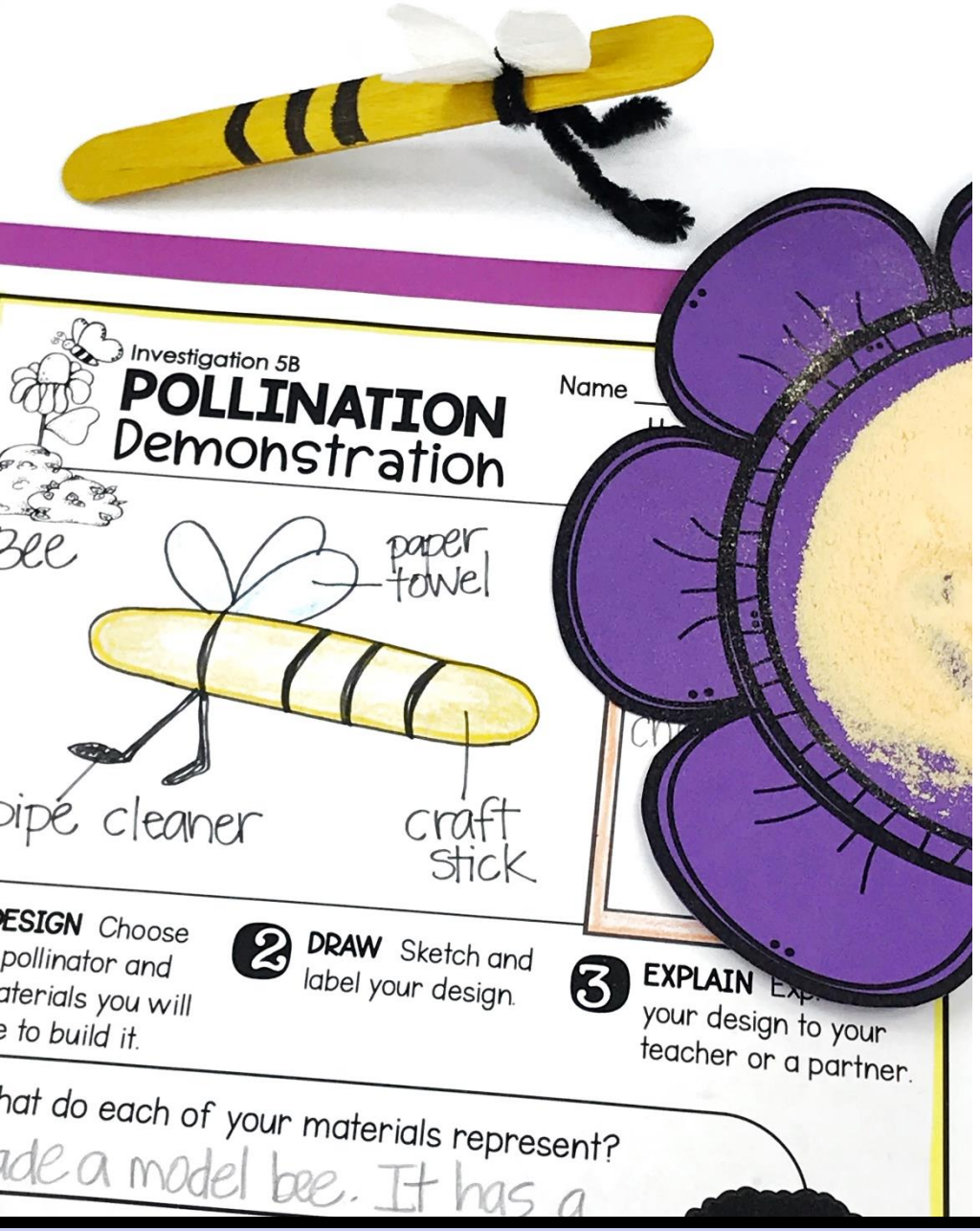
QUESTION:

How can you model pollination?

Think about how pollinators help plants. Create a model showing how an animal or insect pollinates a plant.

Plant & Animal Needs GRADE 2 LIFE CYCLES

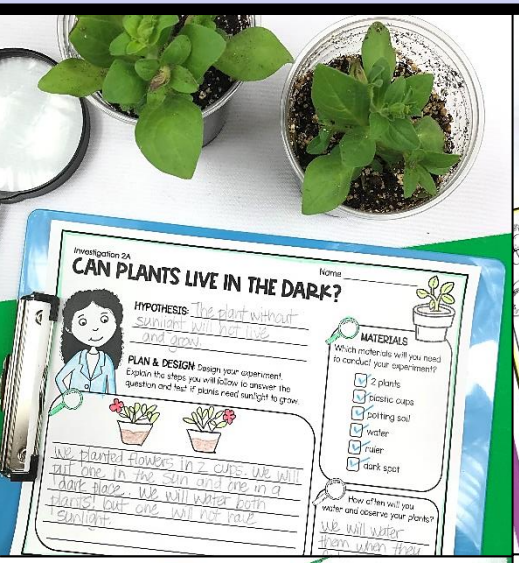
8 HANDS-ON INVESTIGATIONS

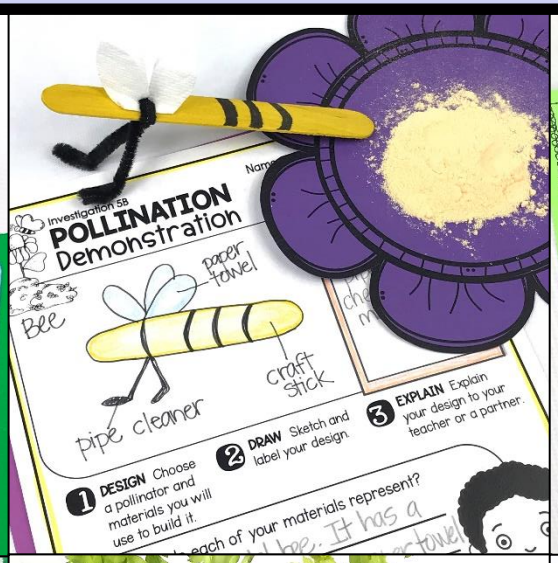


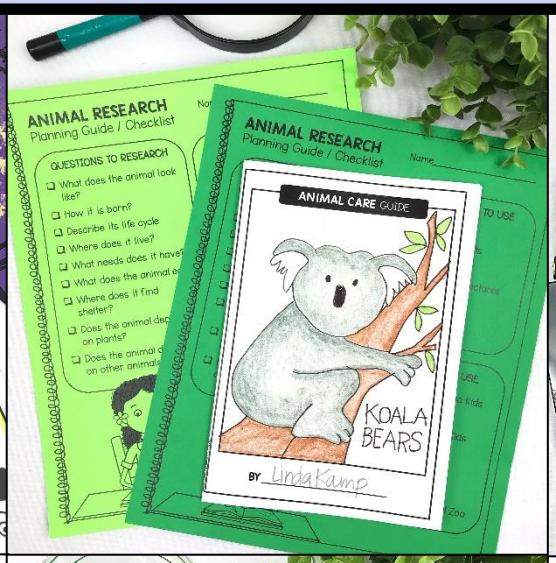
STUDENTS EXPLORE:

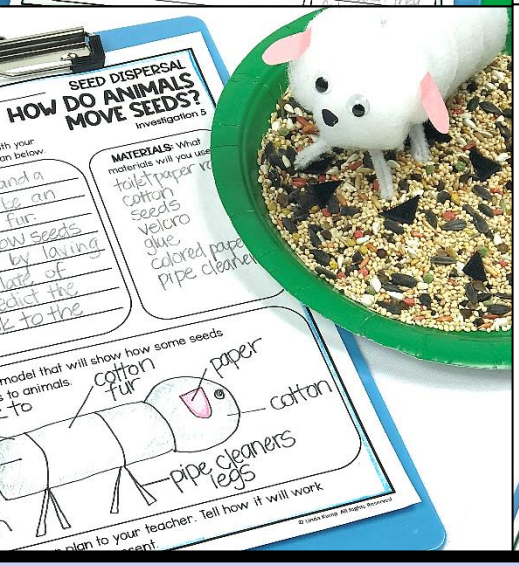
- Plant & animal needs
- Simulating pollination
- Modeling animals dispersing seeds
- How water moves through a plant
- How plants create oxygen
- Writing an informational text on animal needs

Students learn science process skills in fun and creative ways









STEP-BY-STEP GUIDES

With teacher tips, materials list, procedures & pictures

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 5
Investigation 5A
How Do Animals Move Seeds?

QUESTION: How do animals help plants disperse seeds?
OBJECTIVE: Students will design and build a model that shows how seeds are dispersed by attaching to an animal.

MATERIALS:
-black Velcro strips
-bird seed
-cotton balls or bag of poly fill
-pipe cleaners
-craft glue
-wiggly eyes
construction paper
-toilet paper rolls
-paper plate
-lab sheet

INTRODUCE:
Explain to students, **"We ha**
disperse their seeds. Som
animal's fur or feathers."
seeds are dispersed by at
model that demonstrates

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 5
Investigation 5A
Lab Procedure

Make A Model Animal
NOTE: This is one way students can make a model animal.

Secure the poly fill with pile cleaners that will also serve as the animal's legs. We folded the bottom of the legs up slightly to make them more stable.

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 5
Investigation 5A
Lab Procedure

Provide materials for students to choose from. I cut Velcro into squares, then in half diagonally to represent hooked seeds.

Students write a plan and draw a diagram of how they will make a model animal. This is just one example. Students can make their models any way they wish.

Pour some bird seed and any other seeds you are using onto a paper plate. I had students add the Velcro pieces to their plate of seeds.

Students add eyes, ears, etc. of the specific animal they have chosen to make. One of my students made a cow by using a Sharpie to draw large black spots on the body.

Students then use their model to act out an animal walking, laying down, and rolling in a field or in the woods etc.

Students record observations and explanation, on their lab sheets.

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 1
Investigation 1
Lab Procedure

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 1
Investigation 1
What's Inside a Seed?

QUESTION: How do the parts of a seed help a plant grow?

OBJECTIVE: Students will diagram the inside of a seed and explain the function of each part.

MATERIALS:

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 2
Investigation 2A:
Lab Procedure

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 6
Investigation 6
Lab Procedure

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 4
Investigation 4
What Do Animals Need?

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 5
Investigation 5B
Pollination Demonstration

QUESTION: How do animals pollinate plants?
OBJECTIVE: Students will build a model of a pollinator to demonstrate it pollinating plants.

MATERIALS:
-mac & cheese powder (1/3 pack per 3-4 students)

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Investigation 2B
Lab Procedu

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 2
Investigation 2B - Demonstration
How does water move through a plant?

QUESTION: How can we see the parts of a plant work?
OBJECTIVE: Students will observe a demonstration to understand how a plant's roots and stem help a plant grow.

MATERIALS:
-clear jar or vase
-fresh celery stalks with leaves
-red or blue food coloring
–water
-spoon

TEACHER NOTE: *Due to time constraints, I did this lab as a demonstration for my students. Over a three day period, students took about 10 minutes to observe the changes and record observations. You could easily do this as a lab experiment by dividing students into group and having one group be the control group. Each group could use a different color of food coloring. the control group would use no food coloring. After three days, students can compare results with other groups.*

DEMONSTRATION PROCEDURE:

ce leafy celery stalks in two sses of water. Add 20 drops of or blue food coloring and stir.

Plant & Animal Needs LIFE CYCLES
TEACHER GUIDE
Lesson 6
Investigation 6
Breathing Leaves

QUESTION: How can you see a plant creating oxygen? Can plants produce oxygen without sunlight?
OBJECTIVE: Students will observe a leaf using sunlight to create oxygen.

MATERIALS:
-clear plastic cup or bowl
-fresh leaves -sunlight
-water -hand lens
-small rocks -lab sheet

INTRODUCE:
Explain to students, **"As we breathe, the air we inhale is 21% oxygen. After we breathe in oxygen we exhale carbon dioxide. Carbon dioxide is needed by plants for them to live. Plants use carbon dioxide and sunlight to help them make oxygen. Leaves convert sunlight into energy as part of a process called photosynthesis. As the leaf takes in sunlight to create that energy, it expels, or breathes out, oxygen. But how can we see oxygen? Can plants produce oxygen without sunlight? "Think about when you are underwater holding your breath. If you release a little bit of air, you see bubbles. Today we will do a demonstration using leaves in water to help us see the oxygen a leaf expels, or breathes out. We will also test if a plant can still produce oxygen without sunlight."**

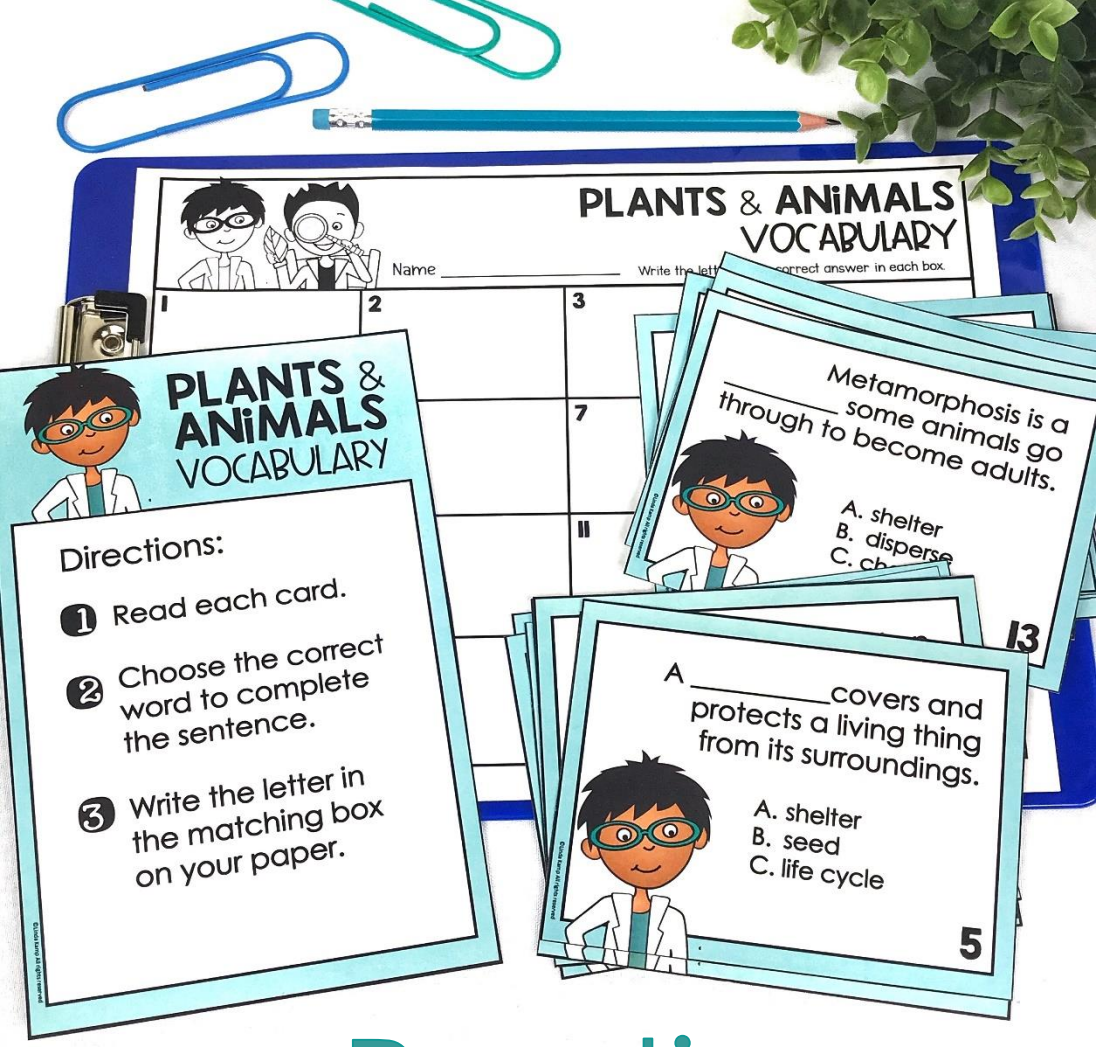
PROCEDURE: Changes occur over a 1-2 hour period. It works best to set up the lab in the

LITERACY-BASED SCIENCE CENTERS

Literacy based

EXTENSION ACTIVITIES

Integrate science in your reading centers



Reinforce SCIENCE CONTENT

Practice MATH & LITERACY SKILLS

Centers included in color and black & white

LESSON SUPPORT

Vocabulary Cards

Plant & Animal LIFE CYCLES

BIG IDEA

Living things have basic needs in order to grow.

nutrient

shelter

needs

basic things a plant or animal needs to survive

Lesson

Lesson 4

GUIDING QUESTION

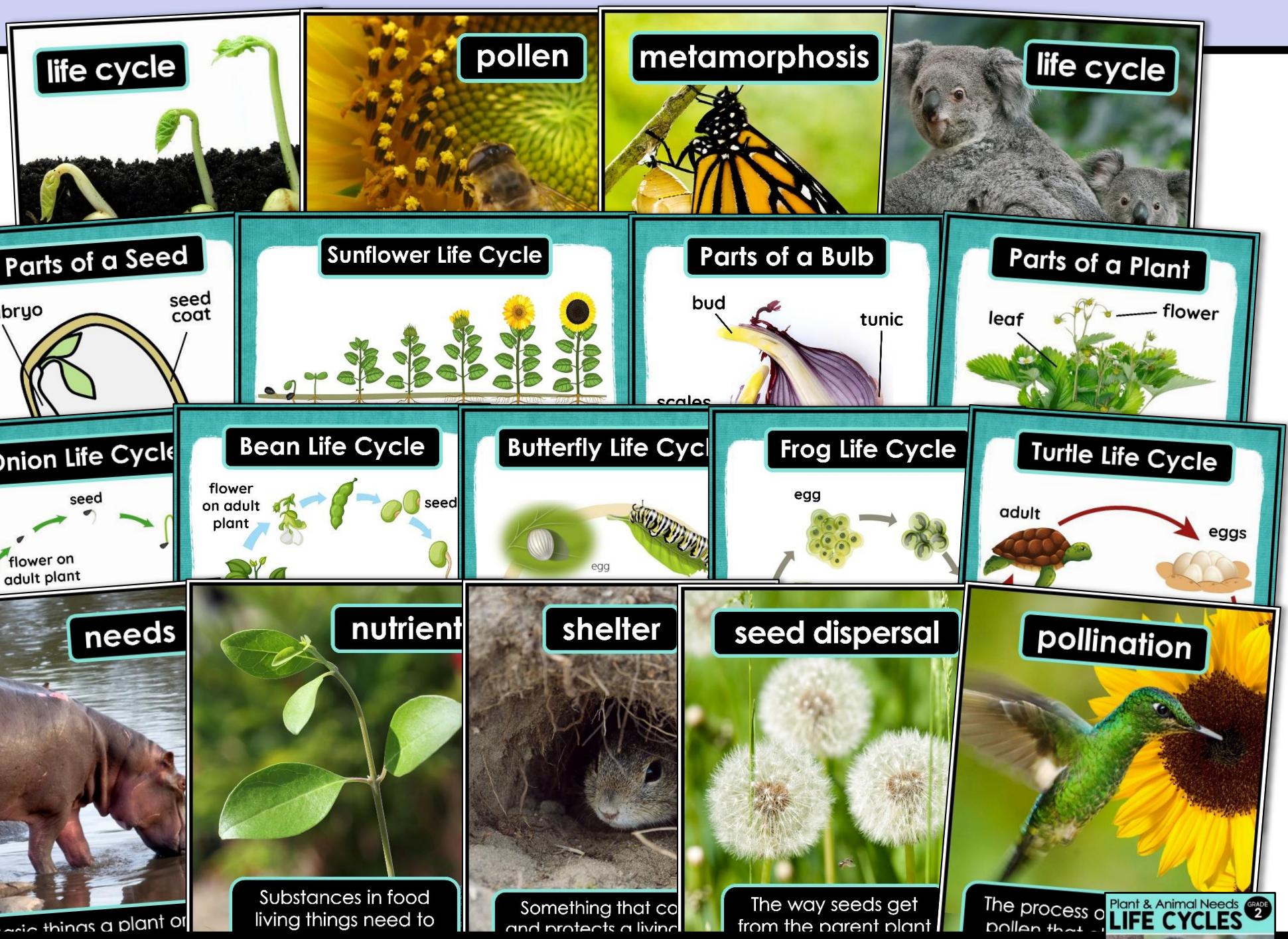
What do animals need to grow?

Lesson 2
Plants & Animals LIFE CYCLES

can describe the needs of plants.

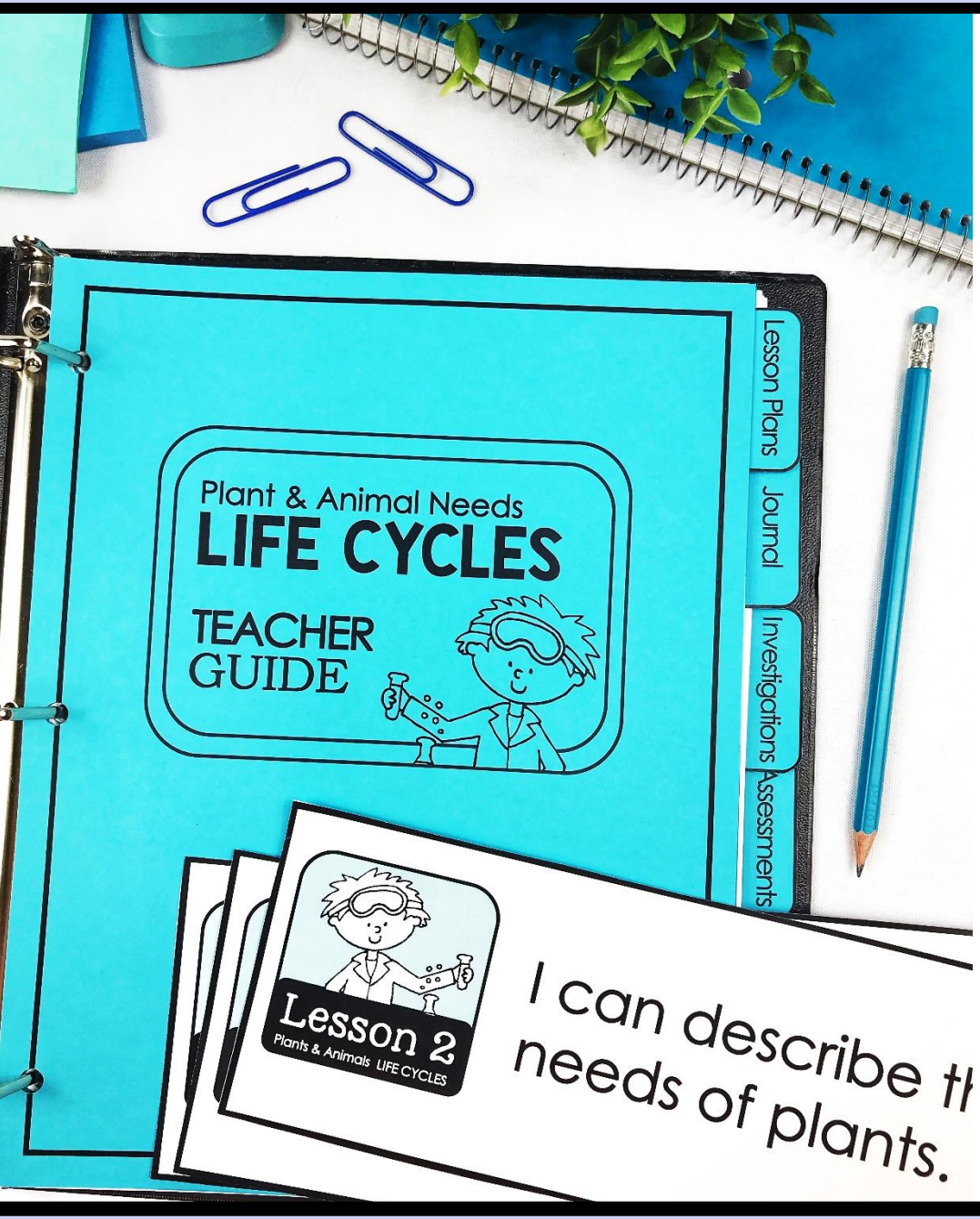
Objectives Cards

Focus Wall Cards



Full Page Vocabulary Posters

UNIT PLANNING BINDER



Organize your unit in a handy planning binder

Binder includes:

- cover & spines
- section dividers
- divider tabs

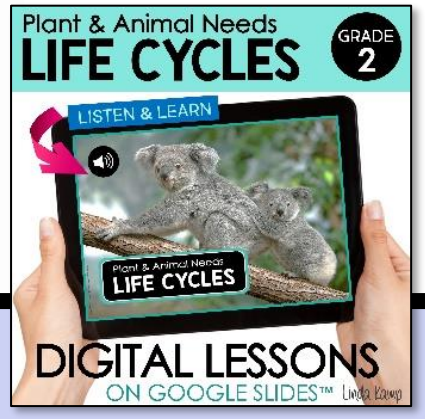
PLAN, **TEACH** & **ASSESS** an in-depth and effective unit

THE DIGITAL UNIT INCLUDES:

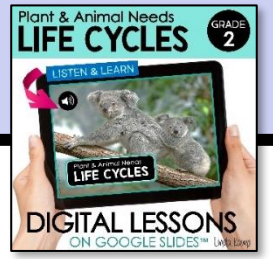
6 AUDIO LESSONS

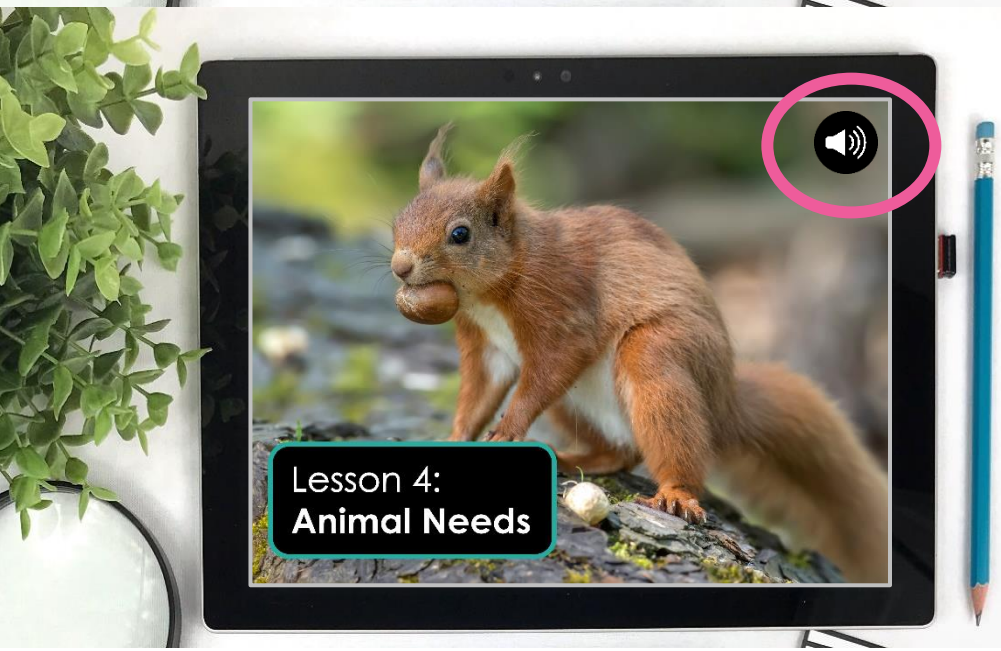
Narrated slides enable independent learning

- Plant Life Cycles
- Plant Needs
- Animal Life Cycles
- Animal Needs
- Plants Rely on Animals
- Animals Rely on Plants

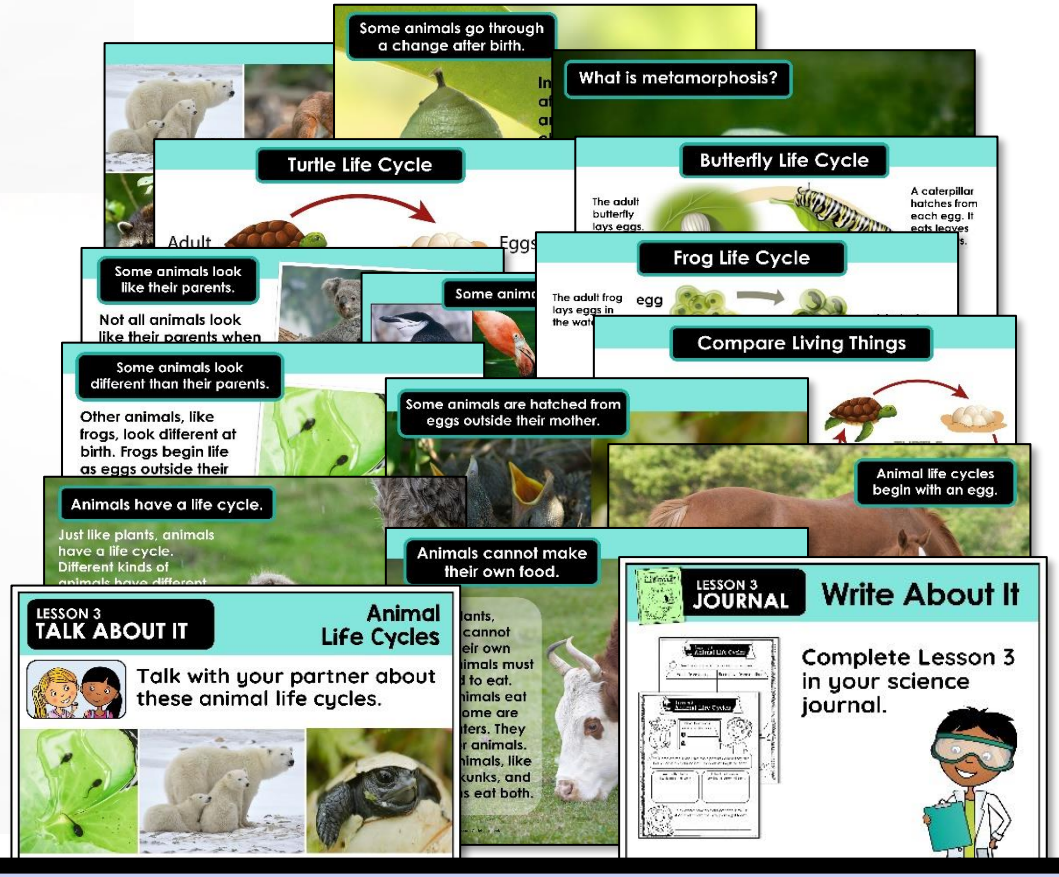


EACH LESSON INCLUDES:



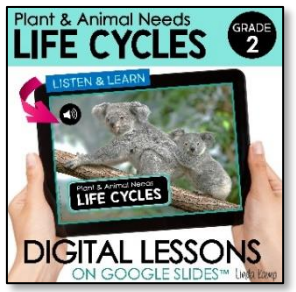


- Narrated lesson slides
- Science journal activity slides
- Exit tickets in 2 formats
- Turn & talk partner questions
- Science center activity



LESSON RESPONSE ACTIVITIES

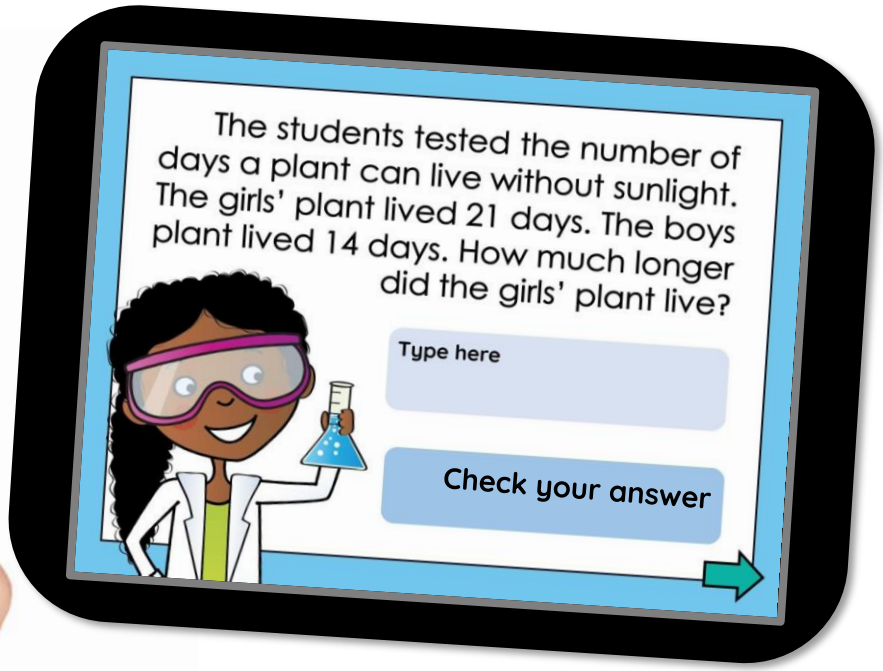
Interactive journal activities on Google Slides™ for each lesson with moveable pieces



DIGITAL CENTER ACTIVITIES

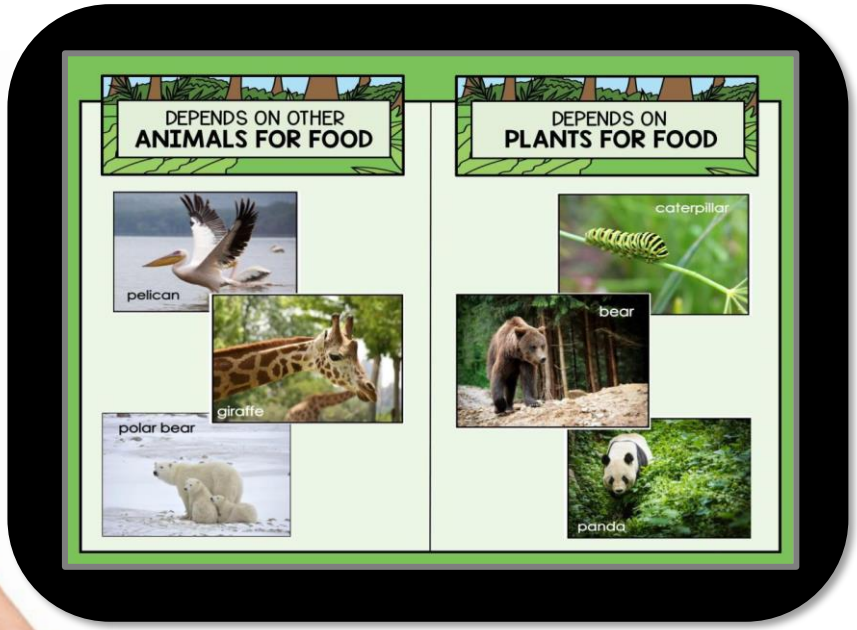
Reinforce SCIENCE CONTENT

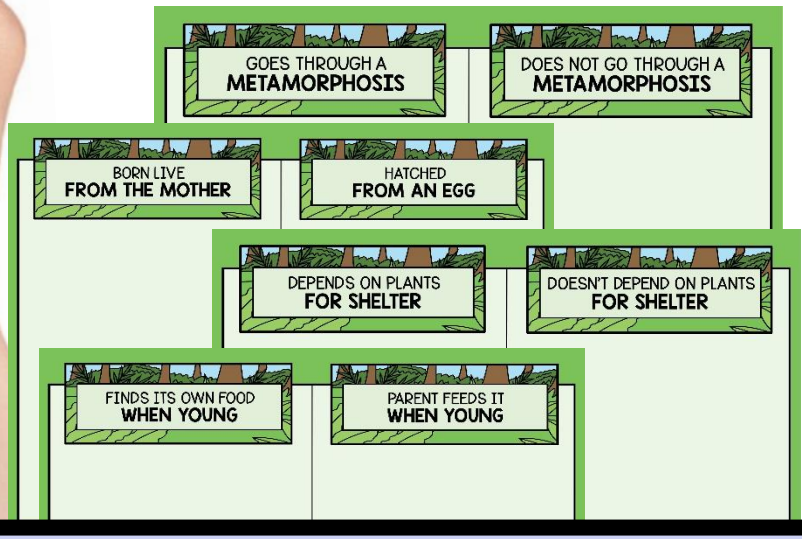
Practice MATH & LITERACY SKILLS

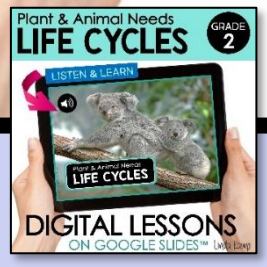


Practice games with moveable pieces

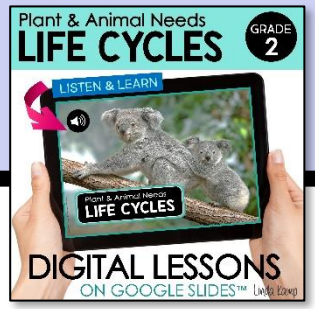
DIGITAL CENTER ACTIVITIES







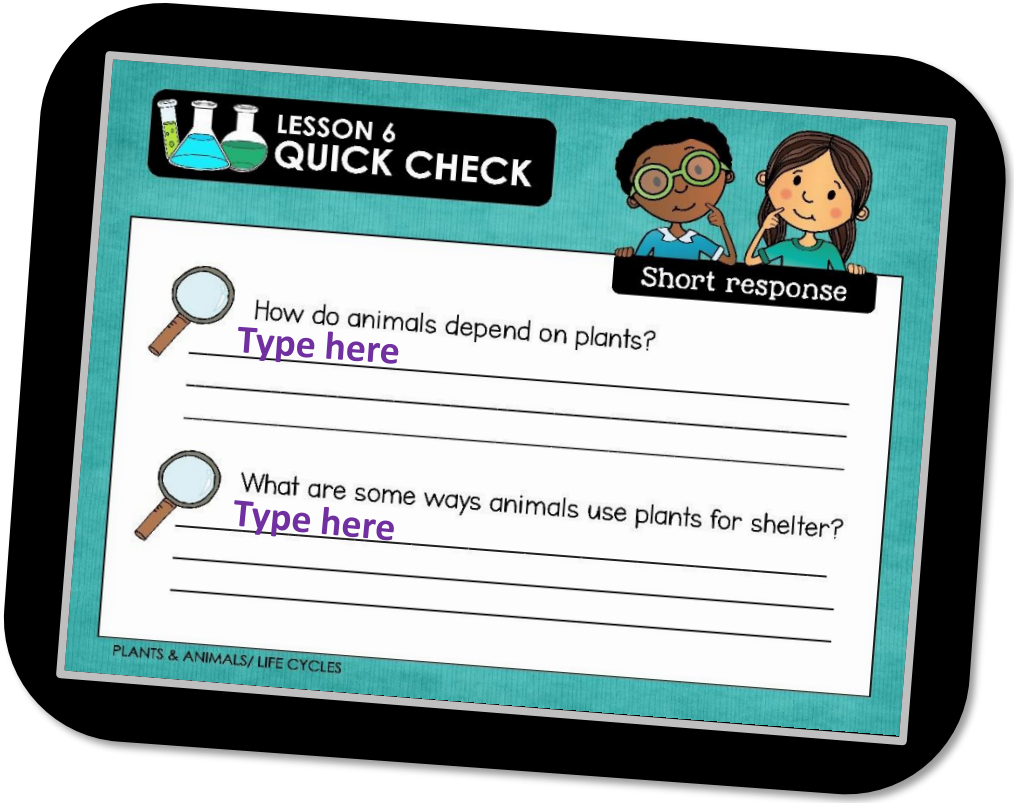
Interactive learning extensions

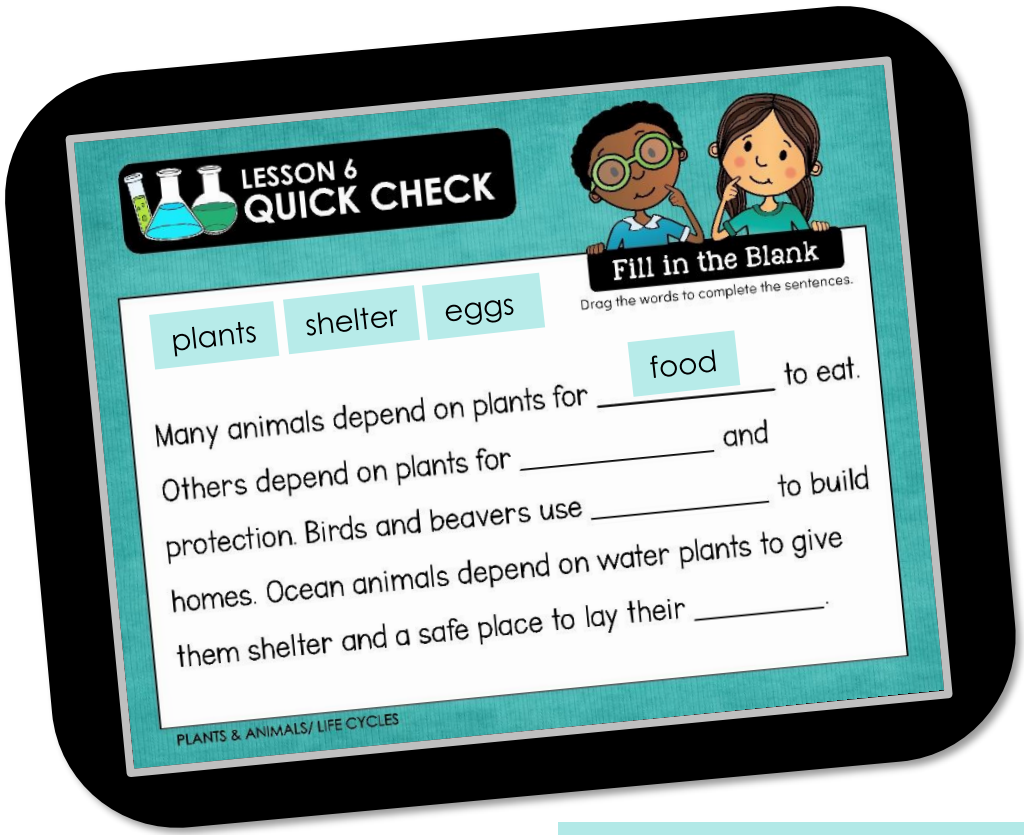


ASSESSMENT MADE EASY

TYPE YOUR ANSWER

Short response quizzes





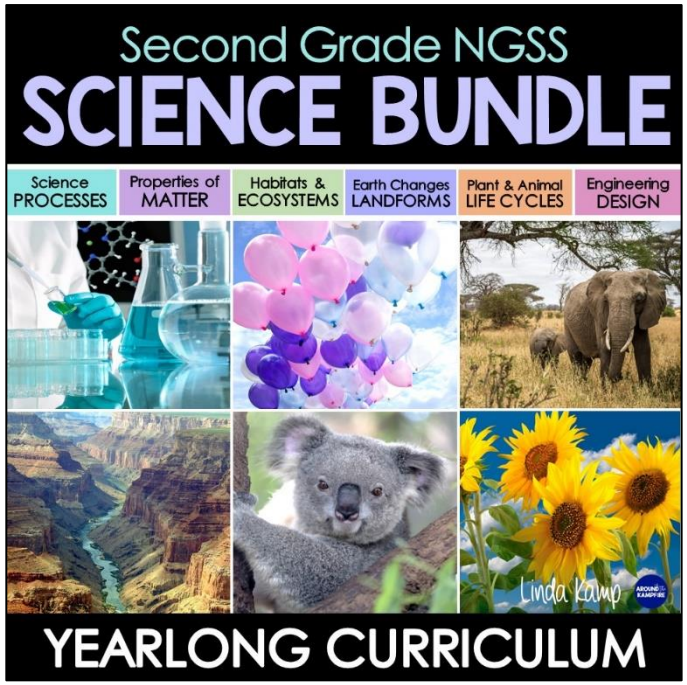
DRAG & DROP

Fill in the blank quizzes

Unit test & all answer keys included

Also available in money-saving bundles

CLICK HERE



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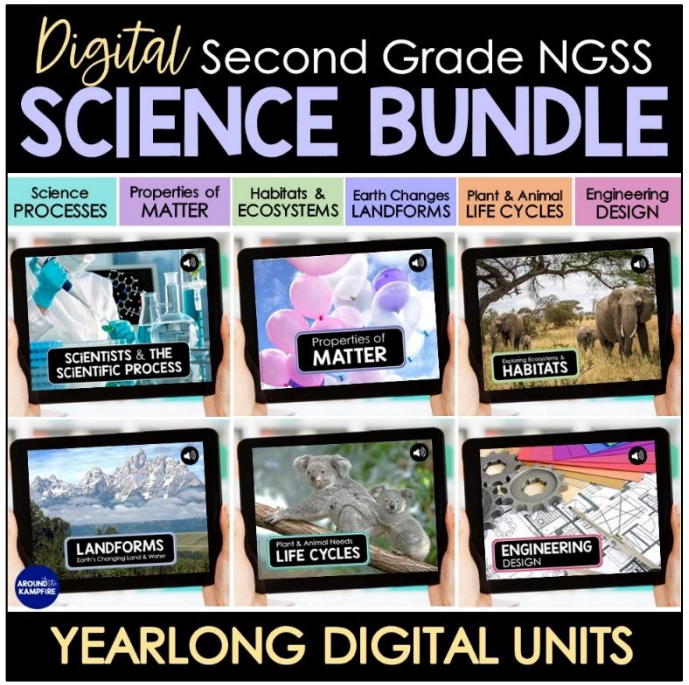

Units also available separately. See all units here