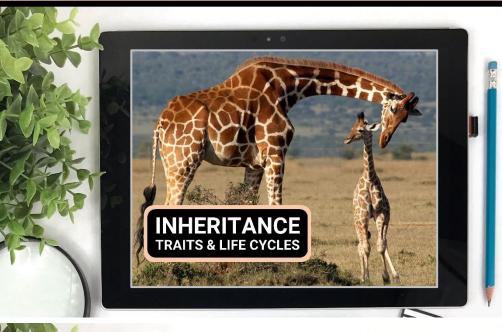
TEACHING POWERPOINT

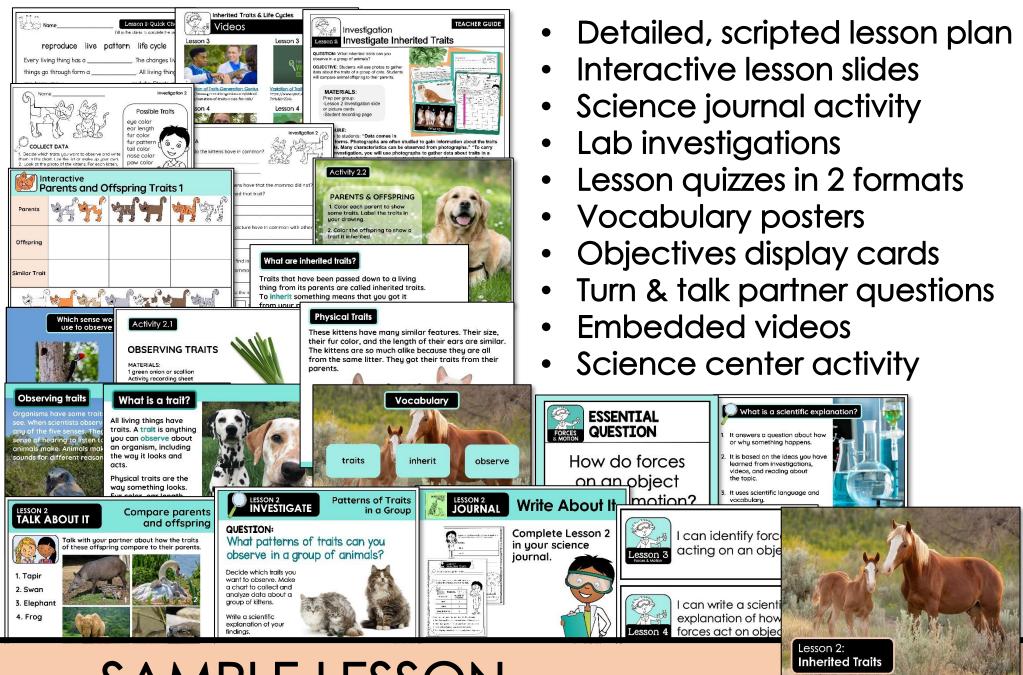




8 IN-DEPTH TOPICS

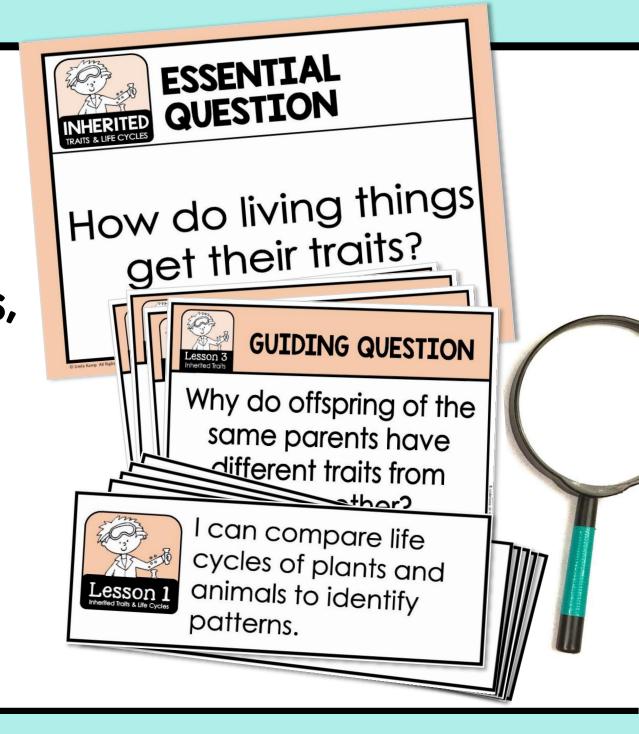
- Life Cycles of Organisms
- Patterns in Life cycles
- Plant Reproduction
- Animal Reproduction
- Inherited Traits
- Variations of Traits
- Patterns of Traits
- Traits Influenced by Environment

EACH LESSON INCLUDES:

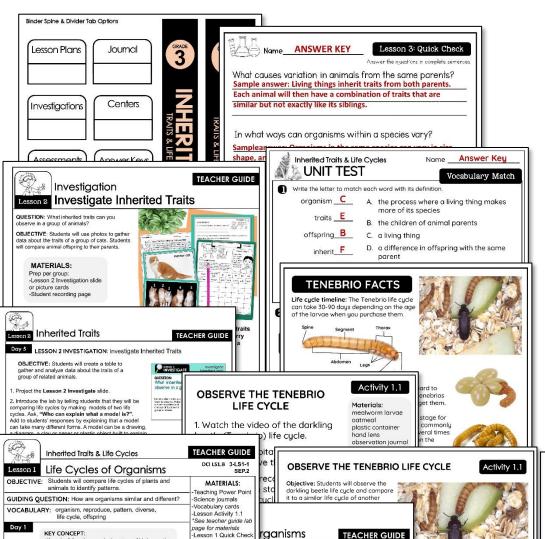


SAMPLE LESSON

Aligned to **Next Generation** Science Standards, **TEKS** and **Common Core** State Standards for 3rd Grade



STANDARDS-ALIGNED



Lesson 1 Quick Check

Lesson 1 Investigation

See teacher guide lab

CYCLES

slide 30.

cycles of plants

de 44. Ask students.

des 45 and 46.

ut It lesson slide

the video

it its life cycle



- Scripted lesson plans
- Standards & objectives
- Performance tasks
- Teacher instructions
- Management tips
- Lab procedures & photos
- **Extension** activities
- **Assessments**



Guide

Pacing

g the owner of the less too of

Life cycles follow the same basic pattern of birth, growth, reproduction, and death; no matter what the organism is

Set the purpose for the lesson

and guiding question.

2. Tell students. "There

thing in commi

DETAILED LESSON PLANS

uah mealworms so each aroup

mealworms are available from

students, prepare a mealworm

th about an inch of oatmeal. This nd food source. Place 1 or 2 thin

worms will get their water from

ntainer. Carefully place the

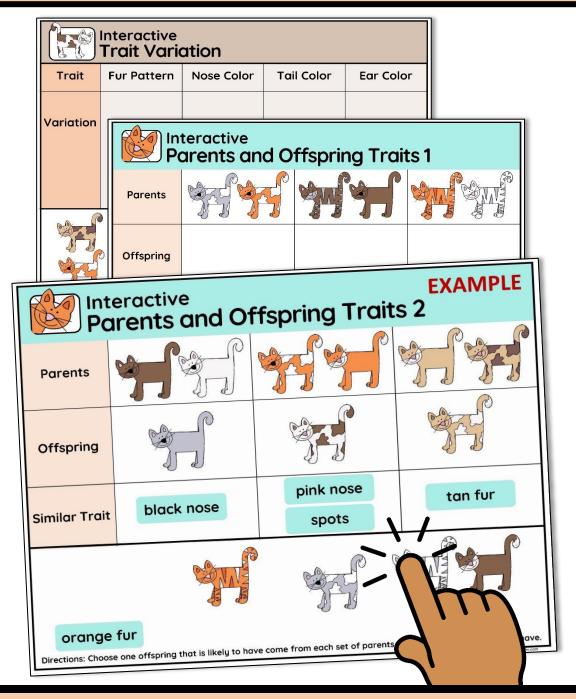
Place the lid on the container

e to change the apples

lastic food container (plastic

lake sure they are live ns that are not live

INTERACTIVE DIAGRAM SLIDES



The diagram slides are initially used during the lesson to explain inheritance, variations, and patterns within groups by sliding animals and traits to match possible offspring with each set of parents.

Students can practice further by uploading the slides onto their devices or desktop.

HIGH-ENGAGEMENT LABS





Students work with partners to discuss, write and investigate.

LESSON 4 TALK ABOUT IT

Environmental



Recall and tell your partner things in the environment that can affect an

How would your pet dog be affected if it





LESSON 2
RESEARCH

Choose a research project

- Research how traits are passed from animal parents to their offspring
- Research how traits are passed from plant parents to their offspring.

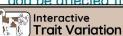


Environmental Effects

Choose a research project

- Research plant and animal traits that can be affected by environment.
- Create an informative writing piece about traits of plants or animals that could be affected by





Trait	Fur Pattern	Nose Color	Tail Color	Ear Color
Variation				





STION:

the environment ct inherited traits?

an a test to stigate how environment



The Celery

Experiment

How are traits

inherited?



Variations of Traits

DN: What variations might their offspring have?







QUESTION: How does pollution in a environment affect organisms that there?

Use dry active yeast to investigate the effect of pollution on an organism.



Simu



Activity 2.1

Patterns of Traits in a Group

QUESTION:

What patterns of traits can you observe in a group of animals?

Decide which traits you want to observe. Make a chart to collect and analyze data about a group of kittens.

Write a scientific



QUESTION:

How are all life cycles alike and different?

Make a model that shows how a plant life cycle, and an animal life cycle, are alike and different



Activity 1.1

OBSERVE THE DARKLING BEETLE (TENEBRIO) LIFE CYCLE

MATERIALS: Mealworm larvae Observation journal

Obtain information about he life cycle of Tenebrios bu watching a video.

Prepare a habitat for your realworm larvae

Observe and record changes during







6 HANDS-ON INVESTIGATIONS



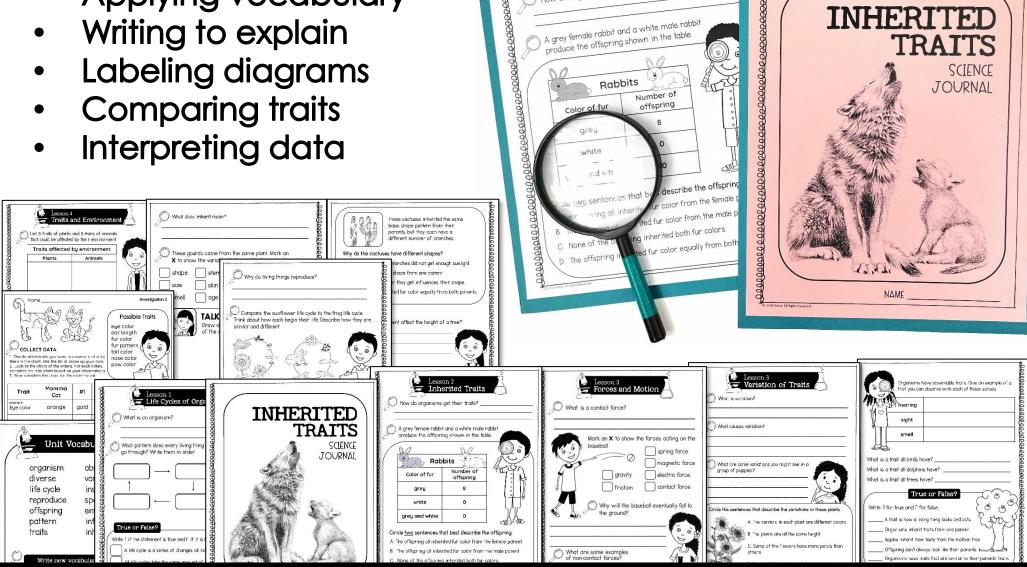
STUDENTS EXPLORE:

- Traits of organisms
- The Tenebrio life cycle
- Inherited traits in offspring
- Variations of traits
- Variations within groups
- Effects of environment on an organism

LESSON RESPONSE JOURNAL

WORKBOOK INCLUDES:

Applying vocabulary



LITERACY-BASED SCIENCE CENTERS



Integrate science in your literacy centers

Use them as lesson extensions or for early finishers



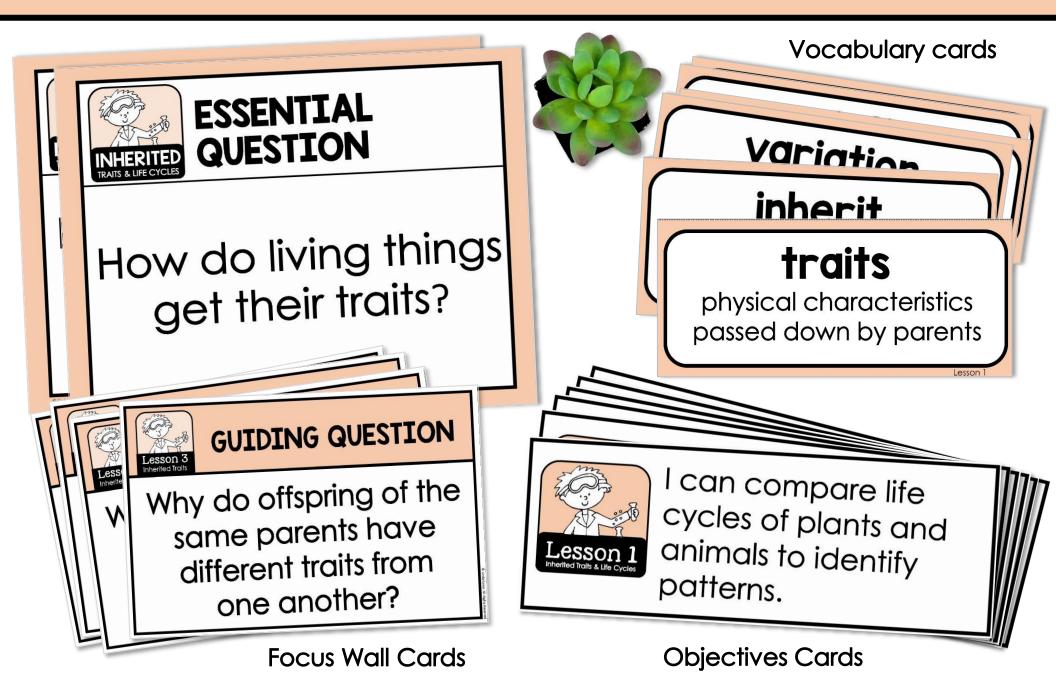


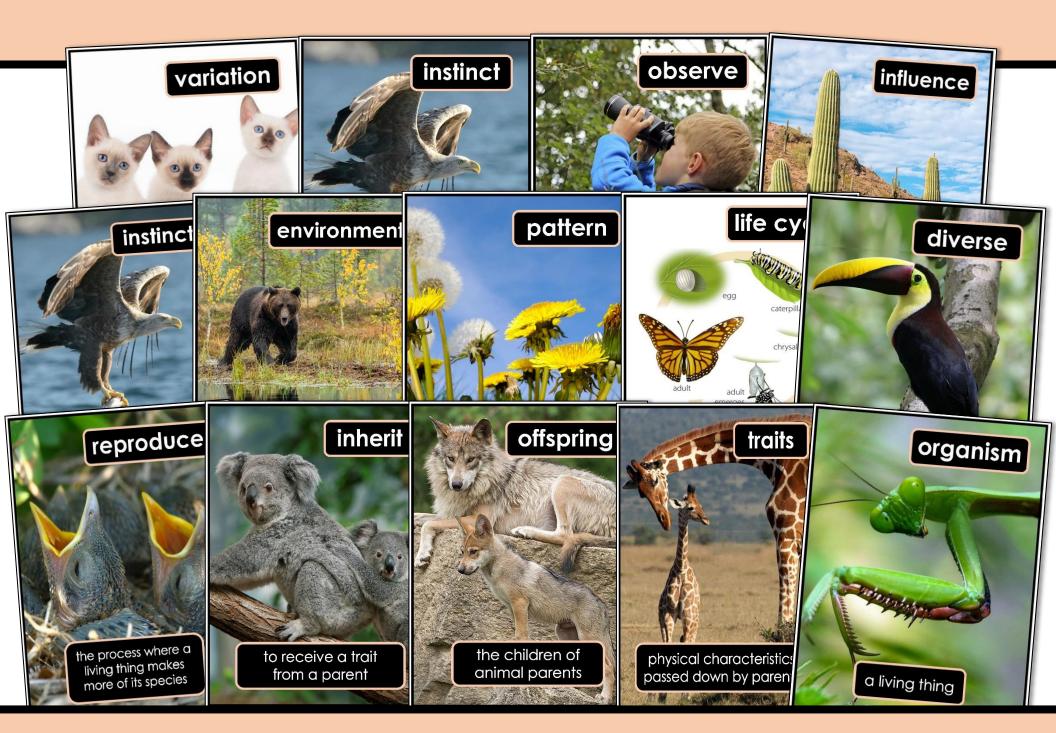
Reinforce SCIENCE CONTENT

Practice MATH & LITERACY SKILLS



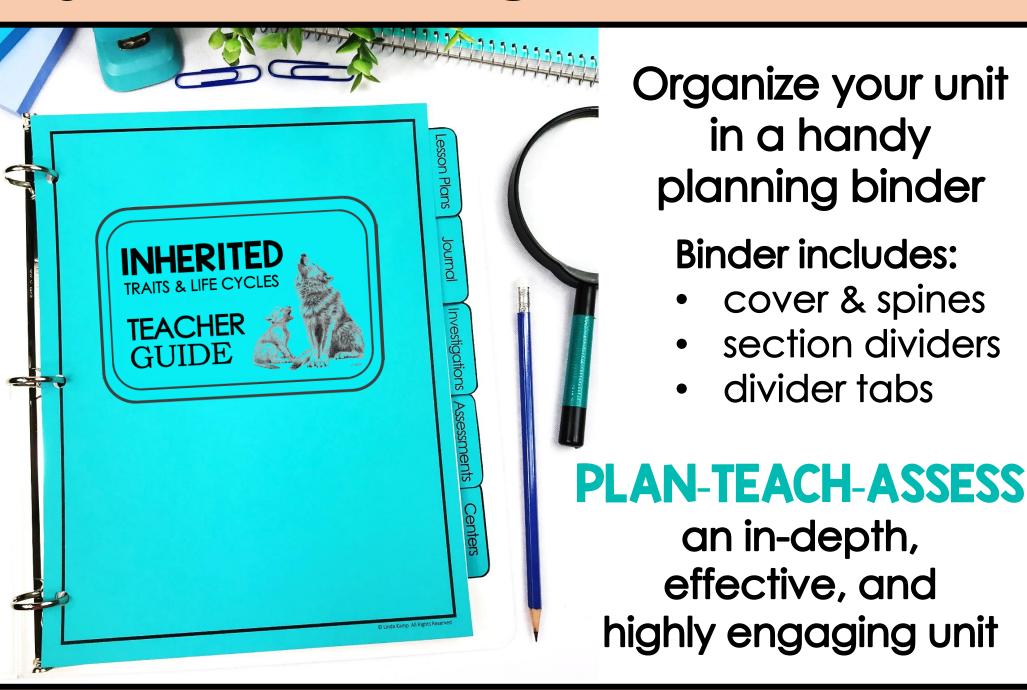
LESSON SUPPORT





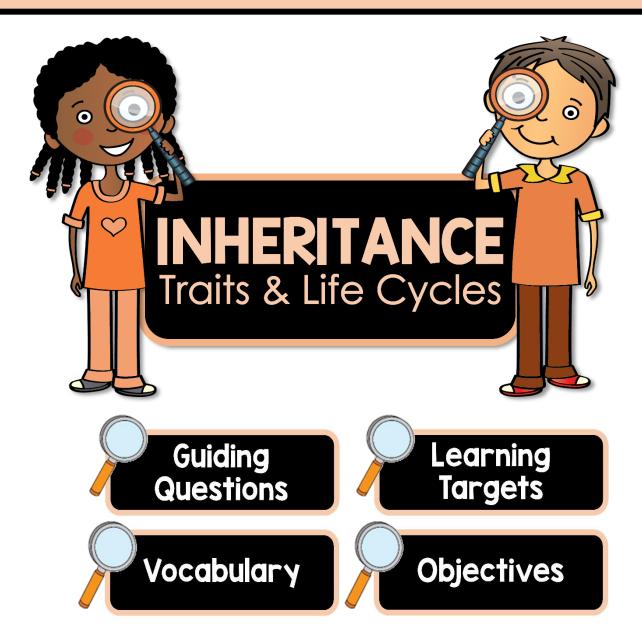
Full Page Vocabulary Posters

UNIT PLANNING BINDER





BONUS Bulletin Board Elements



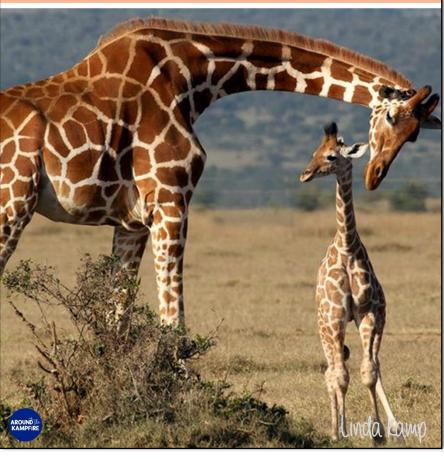
CREATE A SCIENCE FOCUS WALL

Display your learning targets, guiding questions, and vocabulary posters



Ready to use science resources





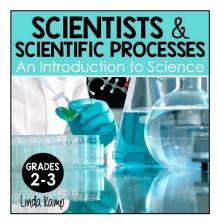
STUDENTS GAIN AN UNDERSTANDING OF:

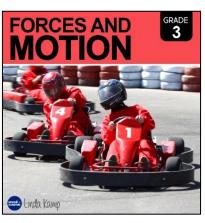
- How organisms get their traits
- Identifying variations in offspring
- Identifying patterns
- Collecting & analyzing data
- Organizing data in tables
- Planning & carrying out investigations
- Building models
- Drawing diagrams
- Writing a scientific explanation

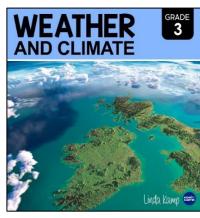


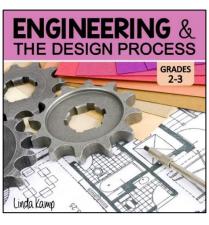
Additional Third Grade Units

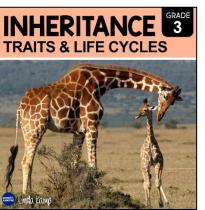
CLICK HERE to see them all!



















Third Grade Science Curriculum