

SCIENCE: human body

1ST & 2ND GRADE

Building a Model Lung

Name: _____

Date: _____

Objective: to understand how the diaphragm and lungs work together to help people breathe

Materials: two balloons, water bottle, clay, straw, rubber band, scissors, pencil

Procedure:

1. Cut the neck off of one balloon. Cut the bottom off of the water bottle.
2. Stretch the cut balloon around the end of the water bottle. This will represent the diaphragm.
3. Put the straw inside the second balloon and tie a rubber band tightly around the balloon to represent the lung, and the straw will represent the windpipe.
4. Put the pencil through the ball of clay, then put the ball of clay around the straw with the balloon.
5. Feed the balloon with the straw into the water bottle.
6. Seal the top of the water bottle with the clay.
7. Gently pull the diaphragm balloon down to simulate breathing.

Hypothesis: How do you think the model lung will work?

- straw with the balloon.
5. Feed the balloon with the straw into the water bottle.
 6. Seal the top of the water bottle with the clay.
 7. Gently pull the diaphragm balloon down to simulate breathing.

1.



1.



2.



3.

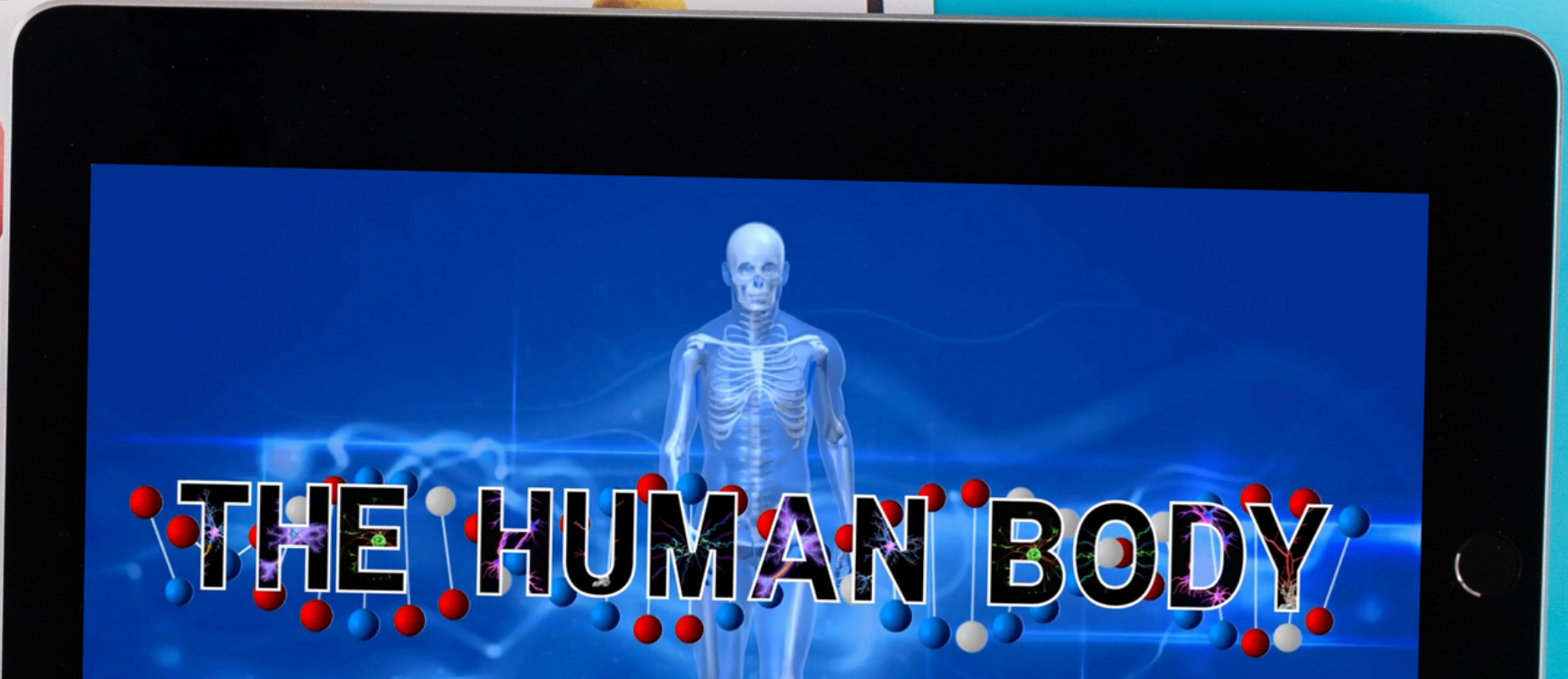


By: _____

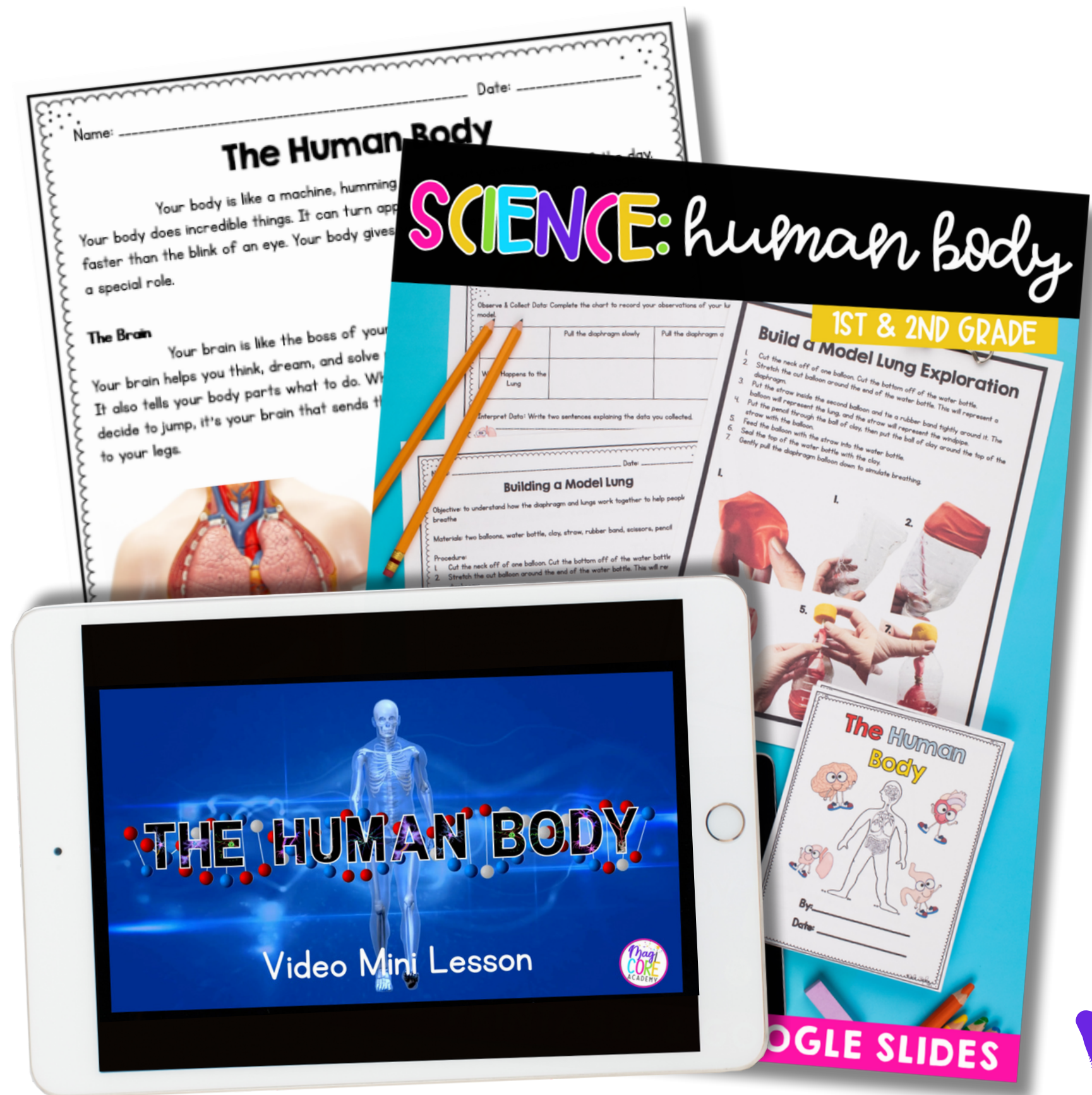
Date: _____



PRINTABLE & GOOGLE SLIDES



WHAT'S INSIDE?



PRINTABLE PDFs and **DIGITAL** Google Slides unit to teach all about the human body.

- Custom Video Lesson
- Reading Passage & Questions
- Mini Book & Vocabulary
- Worksheet & Activities
- Experiments & Explorations
- Quiz

Printable and Google Slides Included



VIDEO & BRAINSTORMING

- Custom video to teach content in an engaging format.
- Prior knowledge and video graphic organizers.

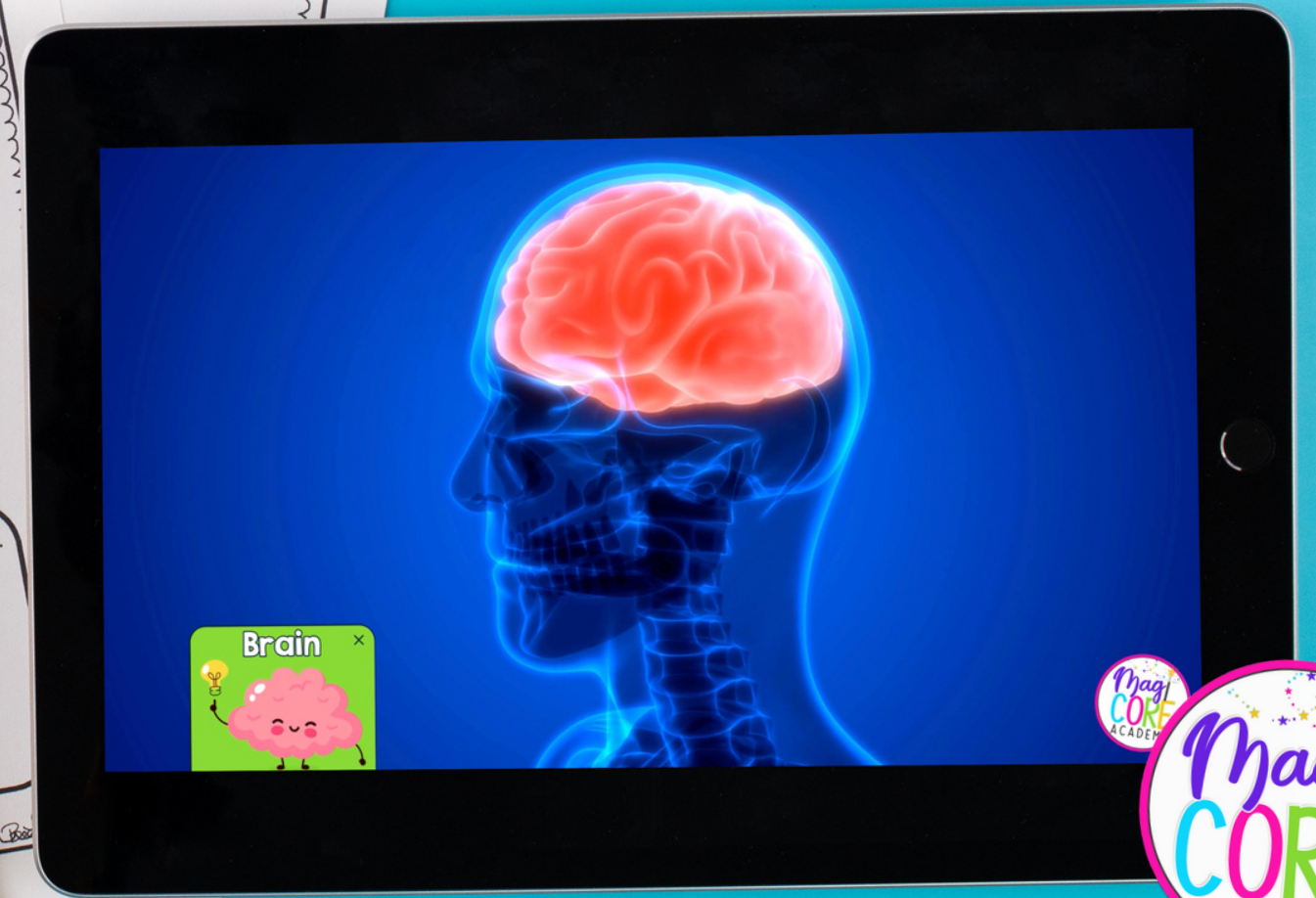


Three worksheets titled "Show What You Know" are shown, each with a different graphic organizer structure:

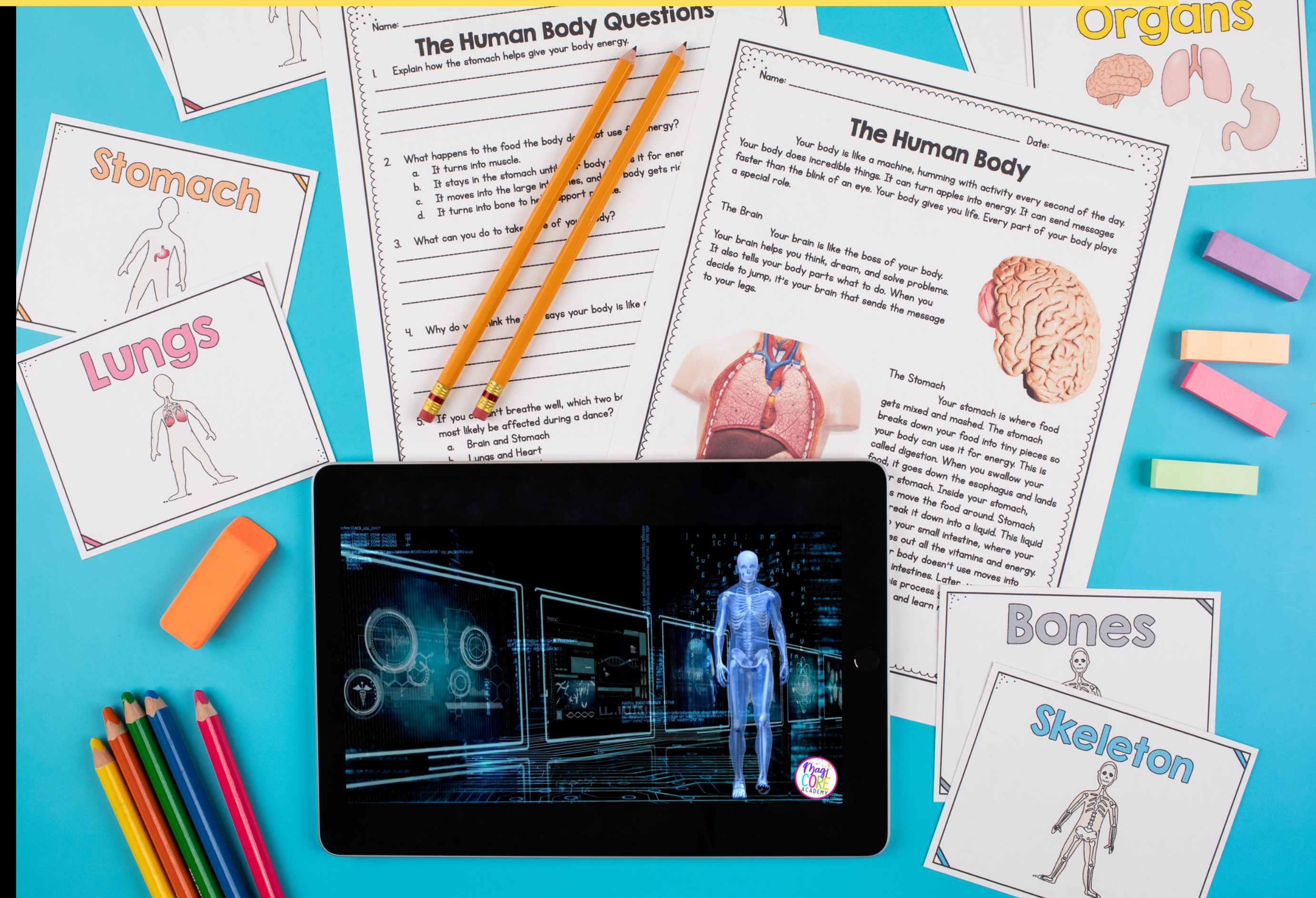
- Worksheet 1 (Top Left):** Features a lightbulb icon. Directions: "Complete the following prompts watched." It includes a list of three things learned from watching.
- Worksheet 2 (Top Right):** Features a lightbulb icon. Directions: "Complete the following questions for the video you just watched." It includes questions about the main topic and a list of facts.
- Worksheet 3 (Bottom):** Features a magnifying glass icon. Directions: "Complete the following diagram for the video you just watched." It includes a flowchart with boxes for "Main Idea", "Topic 1", and "Topic 2", and sections for "What I learned about this topic is..." and "What I also know about this topic is..."

The Human Body

By: _____
Date: _____



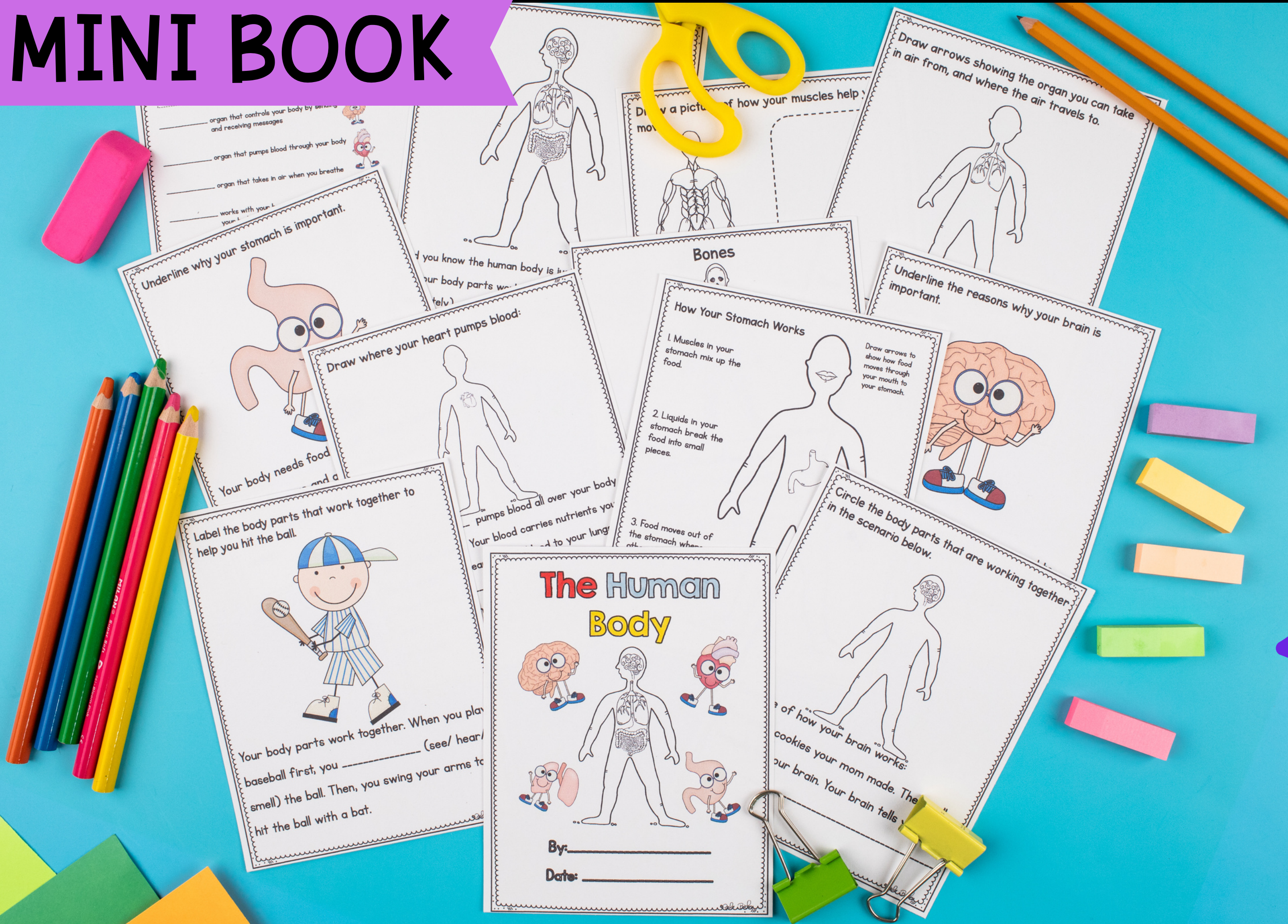
PASSAGES & QUESTIONS



- Passage & Question Set.
- Same content as custom video.
- Reinforces concepts and vocabulary.



MINI BOOK

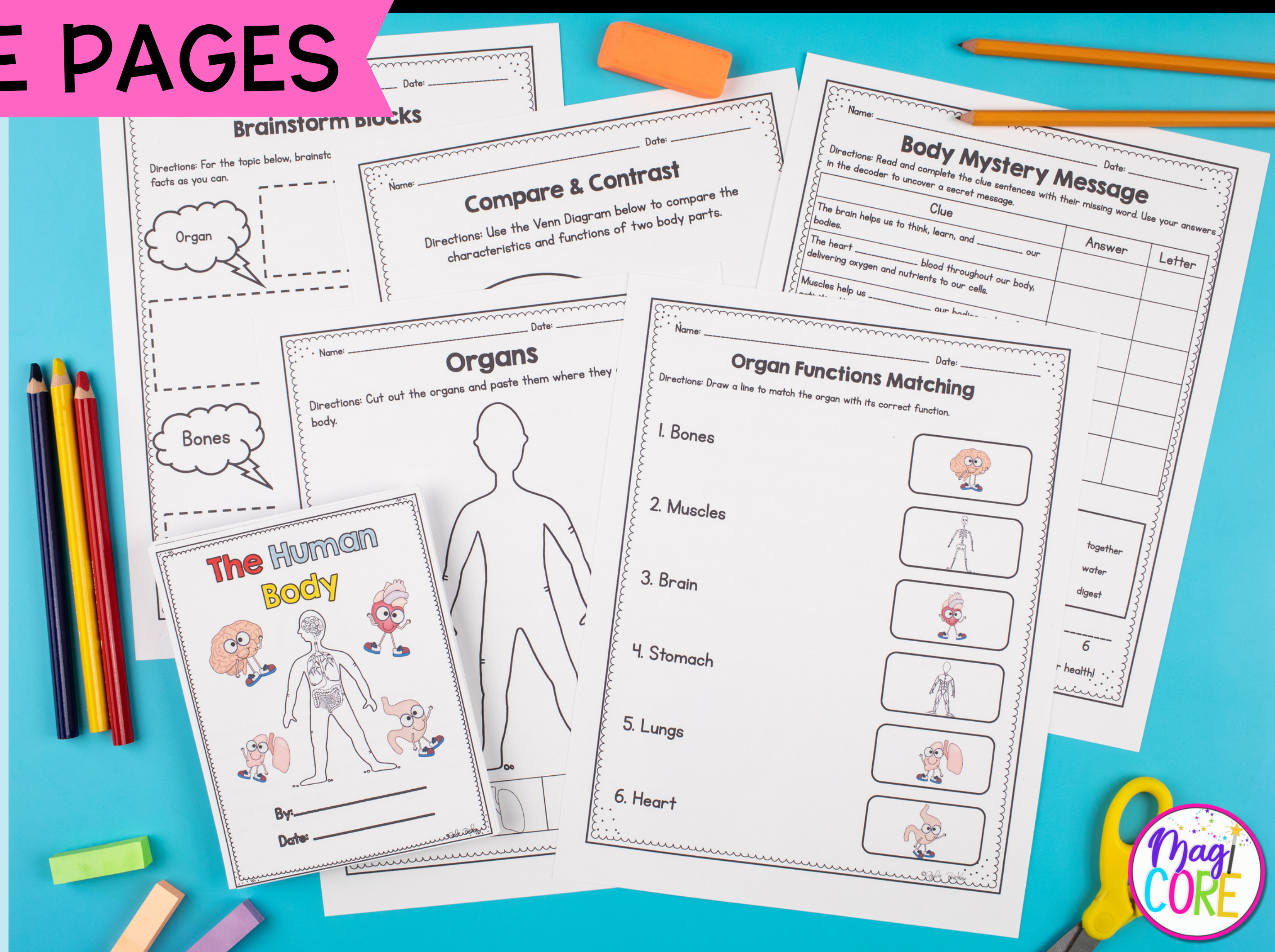


- Vocabulary Cards
- Fill-in-the-blank mini book to hold students accountable to content and concepts



PRACTICE PAGES

- Video & Question Pages
- Mini Book
- Body Mystery Message Decoder
- Organ Functions Matching
- Flip Book
- Organs Cut & Paste
- Compare & Contrast
- Build a Model Lung
- How does Exercise Affect Your Heart?



EXPERIMENTS

- Experiments that follow the Scientific Method
- Allow students to collaborate and explore!



Build a Model Lung Exploration

1. Cut the neck off of one balloon. Cut the bottom off of the water bottle.
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3. Put the straw inside the second balloon and tie a rubber band tightly around it. The balloon will represent the lung, and the straw will represent the windpipe.
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5. Feed the balloon with the straw into the water bottle.
6. Seal the top of the water bottle with the clay.
7. Gently pull the diaphragm balloon down to simulate breathing.

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Building a Model Lung

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5. Feed the balloon with the straw into the water bottle.
6. Seal the top of the water bottle with the clay.
7. Gently pull the diaphragm balloon down to simulate breathing.

Hypothesis: How do you think the diaphragm and lungs work together?

Observe & Collect Data: Complete the chart to record your observations of your lung model.

What Happens to the Lung	Pull the diaphragm slowly	Pull the diaphragm quickly

Interpret Data: Write two sentences explaining the data you collected.

Draw a picture of your model.

Drawing Conclusions: My hypothesis was _____ (correct/incorrect). I discovered _____ What did you learn about how the lungs and diaphragm work together?

Reflections: What questions do you have? What do you wonder? Would you do this experiment in a different way?



QUIZ



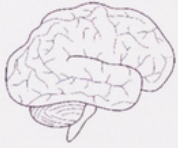

Simple, quick
quiz to ensure
students
understand
basic concepts.



Name: _____ Date: _____

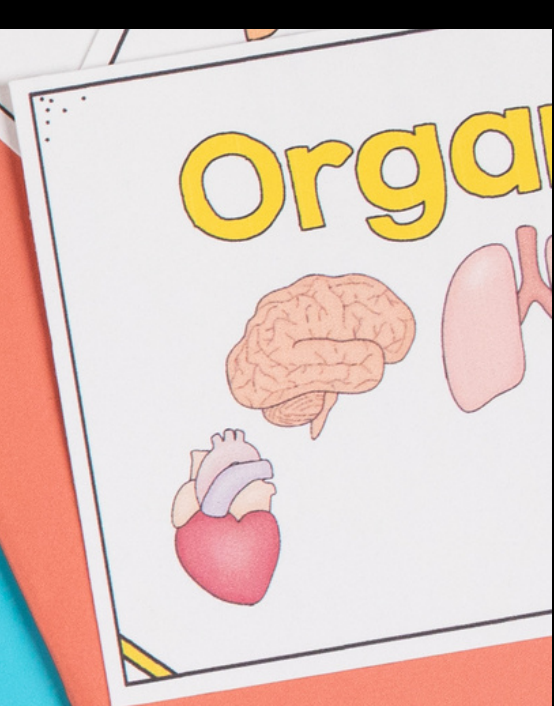
Human Body Quiz

1. What does your heart do to keep your body healthy?

2. Circle the body part that helps turn your food into energy.
   
3. How does your brain, stomach, and muscles work together when you are hungry?

4. How are bones and muscles similar?

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UPGRADE THEIR SKILLS!

SCIENCE Bundle

1st & 2nd Grade Print & Digital

- Science: A Scientist's Job
- Science: Science Tools
- Science: Matter
- Science: The Human Body
- Science: Force and Motion
- Science: Gravity
- Science: Magnets
- Science: Seasons
- Science: Rocks & Minerals
- Science: All About SOIL
- Science: Air and Wind
- Science: SEVERE WEATHER
- Science: The Sun's Energy
- Science: Butterfly Lifecycle
- Science: Plant Life Cycle
- Science: Living Organisms

Magi CORE

Love this unit, but need something more?
TRY THE BUNDLE!

