

INTRO TO SOUND

ESCAPE CODE

INTRO TO SOUND

Sound is made up of vibrations, or sound waves, that the human ear can hear. When a sound is made, vibrations travel through air, water, and solid objects. Sound waves are mechanical waves, which means they cannot travel through empty space. Therefore, it's not possible to hear sounds in outer space. The science of sound is known as acoustics. Sound vibrations occur when there is a movement of matter (solid, liquid, gas) such as the tapping of a pencil. When the pencil hits the desk, the molecules (atoms that are grouped together) begin to vibrate and bounce off one another. The air molecules cause other molecules to vibrate as well. As the vibrations travel through the air, they will...

TASK 3: FILL-INS

DIRECTIONS: After reading the passage, use your knowledge to fill in the missing word. Then, UNSCRAMBLE the letters to reveal your mystery word. Use the EXACT wording found in the passage.

1 Sound vibrations occur when there is a movement of ____.

2 Frequency is how many waves per ____.

3 ____ is the unit of intensity used to measure the loudness of sounds.

4 The lower the frequency, the ____ the speed of sound.

5 Sound is made up of ____, or sound waves, that the human ear can hear.

UNSCRAMBLE:

Shade the following boxes if your mystery word is:

APPLES

C1 → C9 07 → 0
E1 → E8 C11
A12 → D12 B6

ANSWER GRID

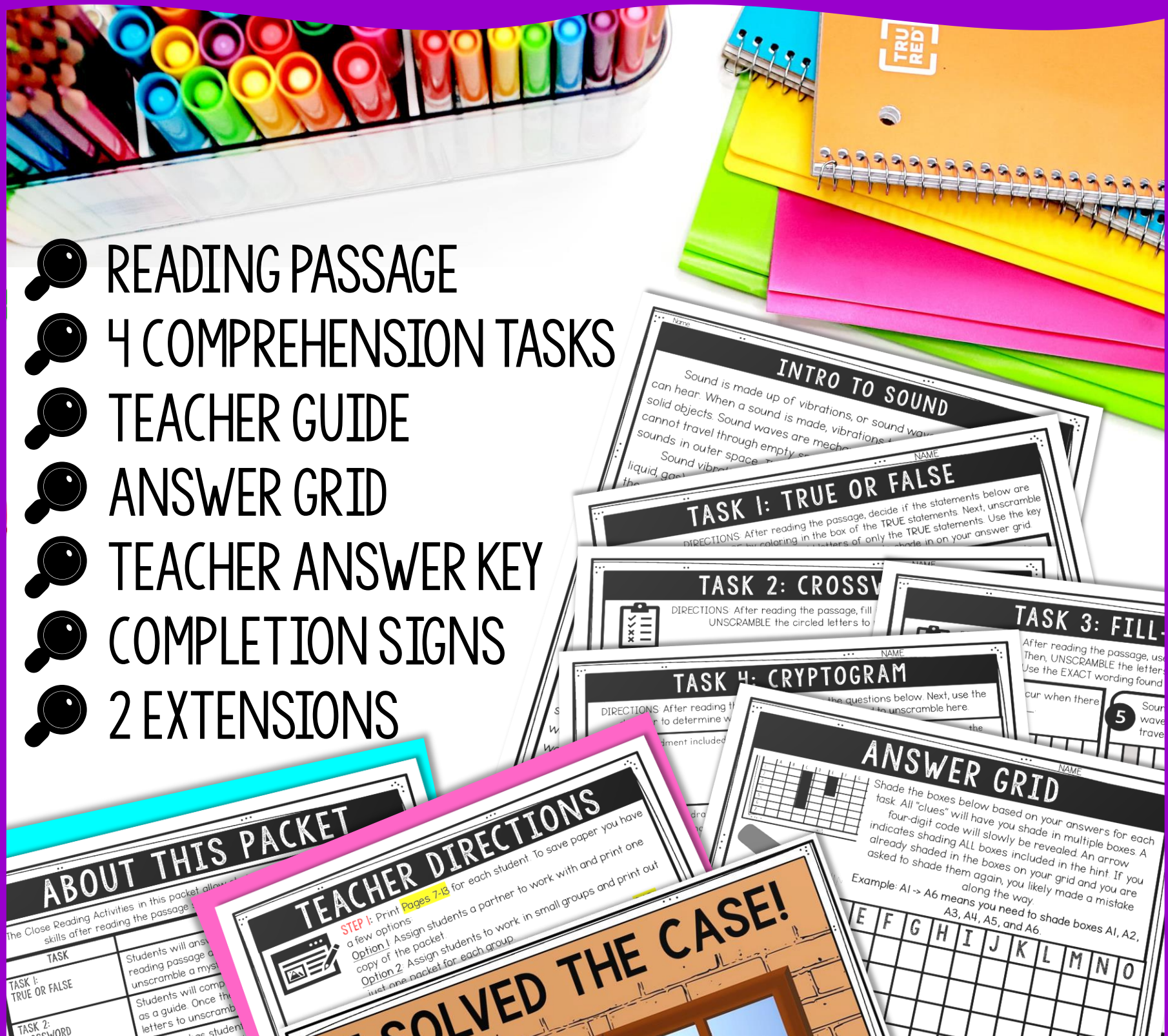
Example: A1 → A6

task: All "clues" below based on your answer grid. An answer grid is a four-digit code that you will use to indicate whether you have shaded the correct boxes. The code is made up of the letters A through Z. You need to shade the boxes on your answer grid that correspond to the letters in the code. For example, if the code is A1A2A3A4, you would shade the boxes A1, A2, A3, and A4. The code is made up of the letters A through Z. You need to shade the boxes on your answer grid that correspond to the letters in the code. For example, if the code is A1A2A3A4, you would shade the boxes A1, A2, A3, and A4.

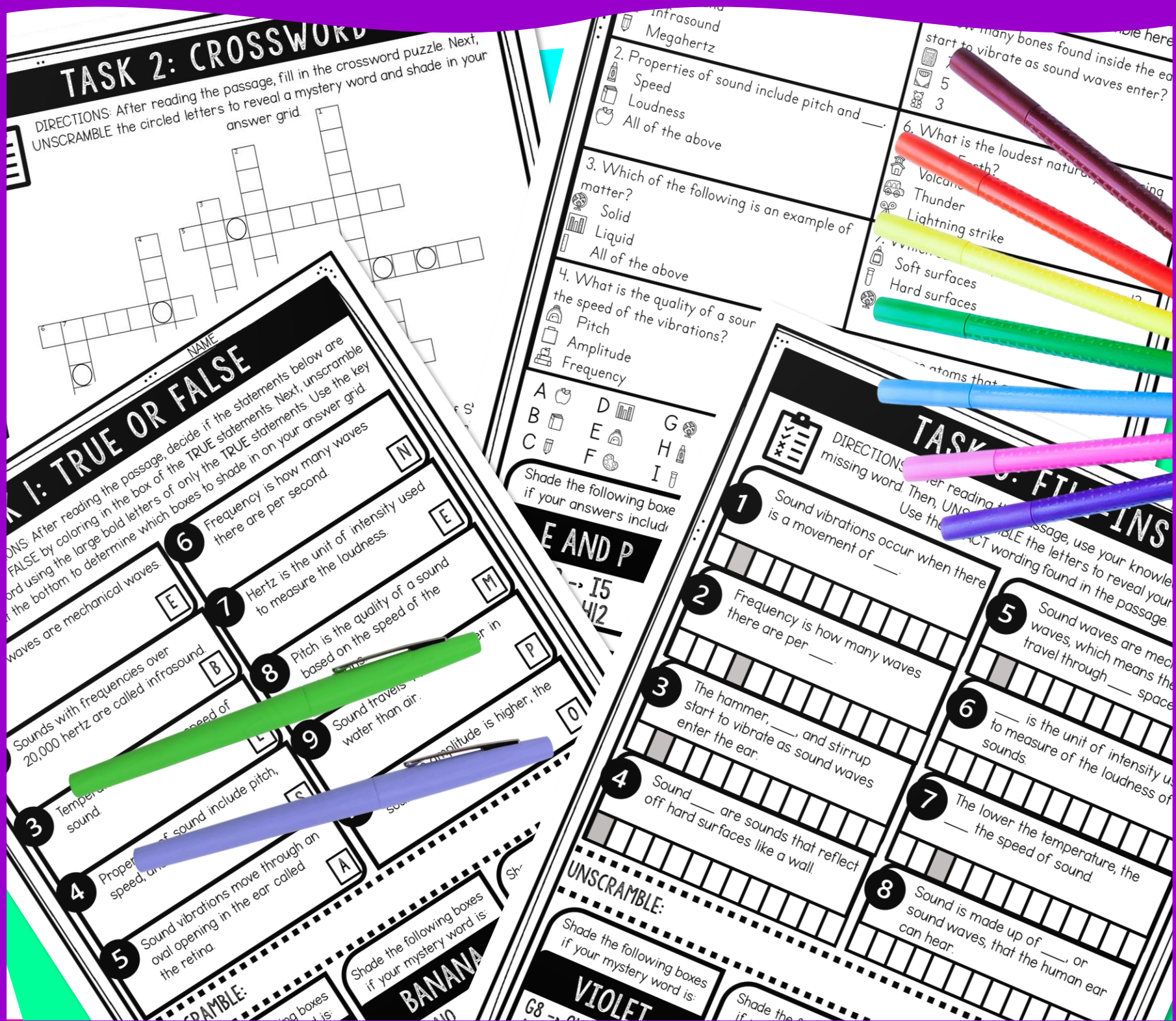
THINK TANK TOO

WHAT'S INCLUDED?

- 🔍 READING PASSAGE
- 🔍 4 COMPREHENSION TASKS
- 🔍 TEACHER GUIDE
- 🔍 ANSWER GRID
- 🔍 TEACHER ANSWER KEY
- 🔍 COMPLETION SIGNS
- 🔍 2 EXTENSIONS



4 TASKS



GRID ANSWERS

TASK 3: FILL-INS

DIRECTIONS: After reading the passage, use your knowledge to fill in the missing word. Then, UNSCRAMBLE the letters to reveal your mystery word. Use the EXACT wording found in the passage.

1 Sound vibrations occur when there is a movement of ____.

2 Frequency is how many waves there are per ____.

3 The hammer, ____, and stirrup start to vibrate as sound waves enter the ear.

4 Sound ____ are sound waves that reflect off hard surfaces and walls.

5 Sound waves are mechanical waves, which means they cannot travel through ____ space.

6 ____ is the unit of intensity used to measure of the loudness of sounds.

7 The ____ temperature, the ____ of sound.

8 Sound is made up of ____, or sound waves, that the human ear can hear.

UNSCRAMBLE:

Shade the following boxes if your mystery word is:

VIOLET

G8 → G12 I2 → I4
A4 → C4 G6 → G11
E1 → E8 C5 → C8

YELLOW

C4 → C9 A7 → D7
K2 → K6 B2 → B9
I8 → J8 I7 → K7

MAROON

O1 → O12 K1 → K12
A7 → A12 B1
E6 → F6 N1

ANSWER GRID

Shade the boxes below based on your answers for each task. All "clues" will have you shade in multiple boxes. A four-digit code will slowly be revealed. An arrow indicates shading ALL boxes included in the hint. If you already shaded in the boxes on your grid and you are asked to shade them again, you likely made a mistake along the way.

Example: A1 → A6 means you need to shade boxes A1, A2, A3, A4, A5, and A6.

Use the MYSTERY WORD to fill in the answer grid!

NO PREP!

