

SKELETAL SYSTEM

CUBE CODE



outer surface of the skeletal system.

A. Mineral storage
B. Protection
C. Support
D. All of the above

What joints don't move and only exist to connect bones?

A. Fixed
B. Hinge
C. Saddle
D. None of the above

How many types of bone marrow are there?

A. 2
B. 3
C. 4
D. 5

A. Calcium
B. Vitamin B3
C. Iron
D. Guanine

number of bones the appendicular skeleton includes MINUS 120.

The FIRST number of the lock is the number of pairs of ribs that most adults have MINUS 9.

The THIRD number of the lock is the number of bones an adult has MINUS 199.

tailbone 33
kneecap 7
vertebrae 7
brain 8
vena cava 47
throat 9

The spine is made of small ring-shaped bones called _____.
The spinal cord is located in the _____.
The ____ bones in the thoracic area with the ribs are called _____.
The ____ is at the top of the skull.

Read each statement below and determine if it is true or false. If the statement is true, color or shade the coin that corresponds to the value. If the statement is false, cross out that coin value. When you are finished add the TOTAL of ALL TRUE coin values. A code has been provided for you. If the total is 625, a 6 in the first box, the 2 in the second box and so on.

STATION 2:
First, number ALL the paragraphs on your reading passage. Then, read each statement below and determine which paragraph NUMBER the statement can be found in. Lastly, eliminate ANY answer where the answer was found in an EVEN numbered paragraph, leaving only ODD numbers as your final code (in the order of questions). Paragraph numbers MAY be used more than one time or not at all.

A. The smallest bone, called the clavicle, is located in your eye.
B. Hinge joints are moving, and you are able to bend them.
C. The largest bone in the human skeletal system is the thigh bone, also known as the femur.
D. Trabecular bones are also known as cortical bones.
E. Ossification is when the cartilage solidifies into bone.

STATION 3:
The skeletal system provides the framework of the human body. This system has six main functions including: mineral storage, endocrine regulation, production of blood cells, protection, support, and movement. The skeletal system consists of bones, connective tissue, tendons, and ligaments. The study of the human skeletal system is called orthopedics.
A newborn baby has roughly 300 bones. By the time they become an adult, some bones have fused together leaving 206 adult bones. The bones of a newborn are a mixture of bones and cartilage. Cartilage is the main type of connective tissue. Over time, a process called ossification occurs. Ossification is when the cartilage solidifies into bone. For example, the kneecaps of a baby start off as cartilage but later become bone.

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nts attach bones to other bones
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cord is a group of nerves that carries messages from the brain to the rest of the body.

THINK TANK

4 DIGIT CODE:

STATION 1:

Use your reading passage or deductive reasoning skills to determine the missing words in the paragraph below. Each missing word has a corresponding NUMBER. The 4-digit code will be the NUMBER of each missing word in the same order in which they appear in the paragraph.

STATION 2:

First, number ALL the paragraphs on your reading passage. Then, read each statement below and determine which paragraph NUMBER the statement can be found in. Lastly, eliminate ANY answer where the answer was found in an ODD numbered paragraph, leaving only EVEN numbers as your final code (in the order of questions). Paragraph numbers MAY be used more than one time or not at all.

STATION 3:

Read each statement below and determine if it is true or false. If the statement is true, color or shade the coin that corresponds with that question. If the statement is false, cross out that coin value. When you are finished add the TOTAL of ALL TRUE coin values. One digit of the code has been provided for you. If the total is 625, a 6 would go in the first box, the 2 in the second box and so on.

STATION 4:

Use your reading passage to determine the combination to the 4-digit lock. You're going to have to use your critical thinking skills and do a tiny bit of math. Pay attention because the "clues" below are NOT in order.

STATION 5:

Answer each multiple choice question below. Then, count the number of times you used each letter answer (ABCD) to reveal your 4 digit code. Answer options may be used more than once or not at all. If a letter option is not used, simply put a zero in the box.

STATION 6:

Reread the passage and write the main idea in your own words. Then, add TWO supporting details that back up your main idea or topic sentence.

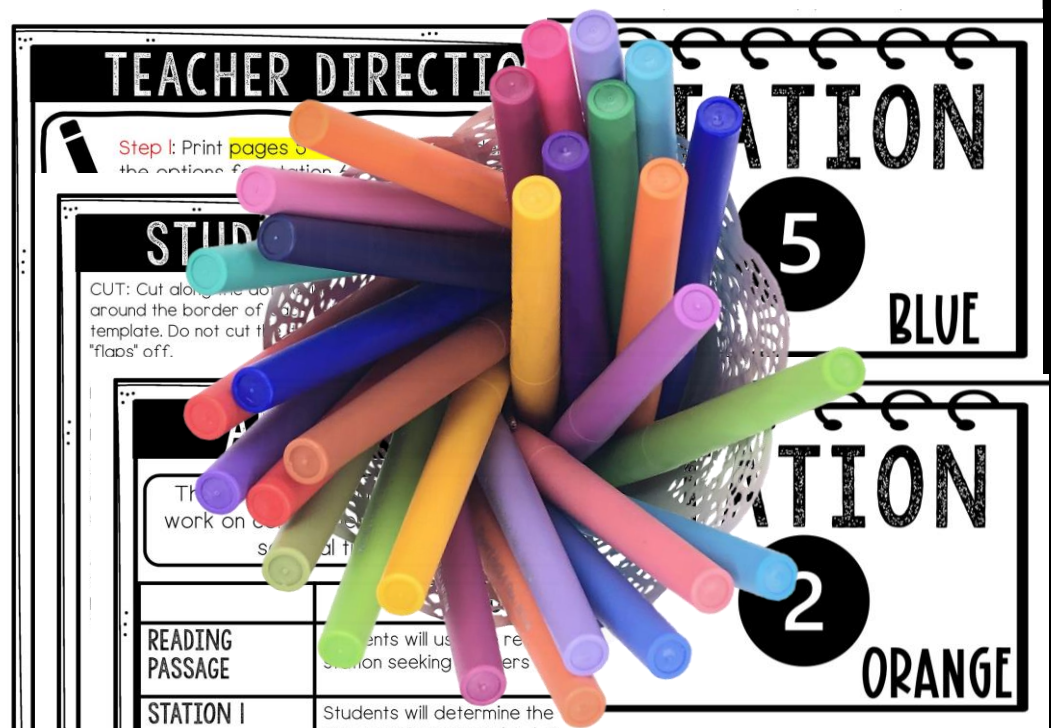
STATION

1

RED

WHAT'S INCLUDED?

- READING PASSAGE
- 6 STATIONS
- TEACHER GUIDE
- STATION CARDS
- ANSWER KEY
- STUDENT DIRECTIONS
- TEXT MARKING OPTION
- ALTERNATE STATION
- ASSEMBLY TIPS



6 STATIONS

STATION 1:

Use your reading passage or deductive reasoning to determine the missing words in the paragraph below. The missing word has a corresponding NUMBER. The 4-digit code will be the NUMBER of each missing word in the same order in which they appear in the paragraph.

STATION

1

RED

STATION 6:

Reread the passage and write the main idea in your own words. Then, add TWO supporting details that back up your main idea or topic sentence.

STATION

6

SUPPORTING DETAIL #1

SUPPORTING DETAIL #2

STATION 4:

Use your reading passage to determine the combination to the 4-digit lock. You're going to have to use your critical thinking skills and do a tiny bit of math. Pay attention because the "clues" below are NOT in order.

The LAST number of the lock is the percent of the skeleton that is

STATION

4

GREEN

STATION 5:

Answer each multiple choice question below. Then, count the number of times you used each letter answer (ABCD) to reveal your 4 digit code. Answer options may be used more than once or not at all. If a letter option is not used, simply put a zero in the box.

STATION

5

BLUE

STATION 3:

Read each statement below and determine if it is true or false. Write the number of the statement in the box. If the statement is false, write the letter of the question number in the box. If the statement is true, write the number of the question in the box. If the statement is true, write the number of the question in the box. If the statement is false, write the letter of the question number in the box.

STATION

3

YELLOW

STATION 2:

First, number ALL the paragraphs on your reading passage. Then, read each statement below and determine which paragraph NUMBER the statement can be found in. Lastly, eliminate ANY answer where the number is not an ODD number. Only ODD numbers are allowed. Write the numbers in the boxes to determine the final code.

STATION

2

ORANGE

A B C D

4 DIGIT CODE

4 DIGIT CODE

SAMPLE CUBE



STATIONS

STATION 1	Students will determine the missing words in the paragraph to reveal a 4 digit code.
STATION 2	Students will number the paragraphs and browse the passage to determine where the answers can be found (paragraph number). After eliminating EVEN numbers, a 4 digit code will be revealed.
STATION 3	Students will read each statement and determine if it is true or false. They will then ADD all TRUE values to find the 4 digit code.
STATION 4	Students will do some basic math here, read the passage to find the answers and then determine the 4 digit code.
STATION 5	Students will answer 6 multiple choice questions which lead them to a 4 digit code based on the number of times they used each "answer".
STATION 6	Option 1: Main idea writing activity Option 2: Color and add topic
TEXT MARKING	OPTIONAL: A color code chart is included in case you want students to mark the text citing evidence of where they found their answers.

**STUDENTS WILL
USE THE SAME
READING
PASSAGE AT
EACH STATION
SEEKING
ANSWERS AND
TEXT EVIDENCE.**

HOW IT WORKS



ENGAGING READING COMPREHENSION PRACTICE!

1

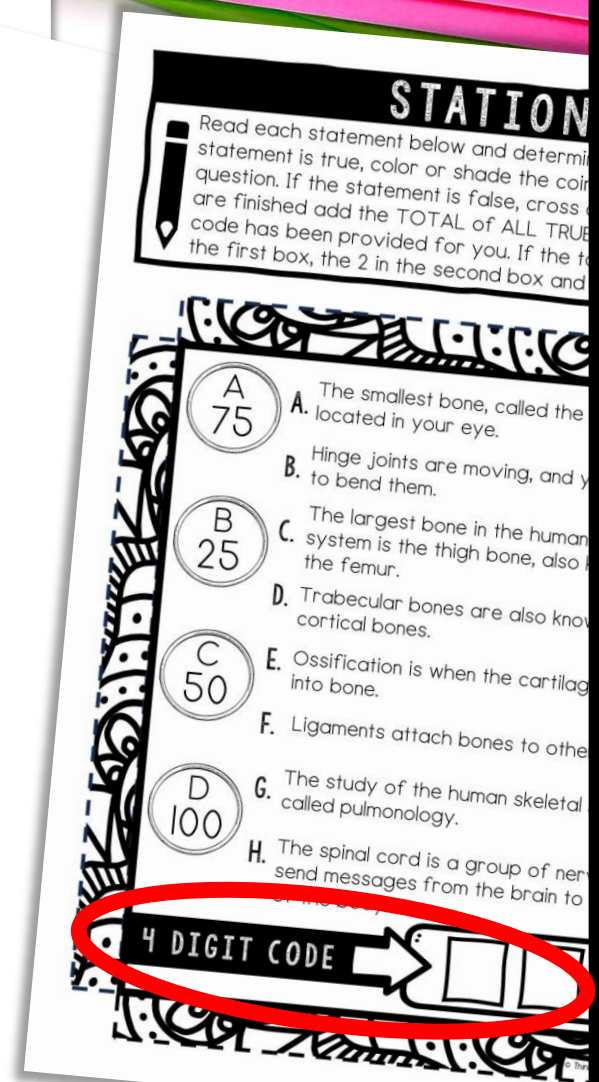
Students work individually (or in pairs) and visit 6 stations, grabbing one side of their cube at each station.

2

Students will answer the questions (found directly in the passage) on their cube sheet before assembly. Students will revisit their reading passage at EACH station!

3

Students will reveal 4-digit codes to move on to the next station. When they finish all stations, they can color and assemble their cube.



COMBINATION



Each Cube Code is a winning combination of:


- stations and movement
- close reading
- comprehension skills
- coloring and stress relief
- secret codes
- cut and paste
- citing evidence
- critical thinking

Everything a teacher dreams of wrapped up into one FUN and engaging activity!

BENEFITS



THINK OUTSIDE THE BOX!

-  ANTICIPATORY SETS
-  UNIT REVIEW
-  EARLY FINISHERS
-  STATIONS
-  SUB PLANS
-  PARTNER WORK
-  ENRICHMENT

-  HANDS-ON
-  CROSS-CURRICULAR
-  HIGHLY ENGAGING

