

BOOK 2

GREEK & LATIN ROOTS

SKETCH NOTES

capit/cipit

Latin root for "head"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Mount Rushmore National Memorial
The monument depicts four U.S. Presidents, each one representing an important part of the country's history:
- **WASHINGTON** - the 1st president of the United States
- **JEFFERSON** - embodies the nation, as he is credited with the **DECLARATION OF INDEPENDENCE**
- **ROOSEVELT** - the **DEVELOPMENT** of our country
- **LINCOLN** - symbolizes the **BIRTH** of the country because he led this country through the **CIVIL WAR**

viv/vit

Latin root for "life, alive"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Staying Alive
An adaptation is a genetic change, that organism, such as an animal, survive in its environment. Some adaptations are (e.g. migration of birds while some are physical (e.g. to the left).
Tight closing nostrils to keep warm in the winter.
Long eyelids to keep eyes closed in the winter.
Thick hair to protect from the sun.
Fat storage to survive long periods of food shortage.
Long legs to keep the body warm from the inside.

gen

Greek root for "birth, race, origin"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Genes and DNA
Inside every cell of each living thing are sets of instructions called genes. Genes are made up of long strands of deoxyribonucleic acid (DNA). DNA is the plant or animal will look like, how it will grow, how it will interact with its surrounding environment. DNA is a long thin molecule made up of four different types of nucleotides: adenine, thymine, cytosine, and guanine. These nucleotides are held together by a sugar phosphate "backbone." If you could unroll the DNA you have in just one of your cells, it would be about 2 meters long (roughly 6.5 feet).

dys

Greek root for "badly, ill"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

BAD Bacteria
Dysentery is an infection that causes inflammation in the large intestine. Symptoms include severe stomach pain, fever, and chills. It is usually caused by shigella bacteria, and is often spread through contaminated food or water. If left untreated, dysentery can be deadly. In fact, during the US Civil War, dysentery claimed more lives than battle wounds.

aer

Greek root for "air, atmosphere"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Atmospheric Levels
The atmosphere of Earth is the layer of gases, commonly known as air, that surrounds the planet and is retained by Earth's gravity. It protects us from electromagnetic radiation given off by the sun and small objects flying through space such as meteoroids.
Troposphere: 0 to 12 km (7 to 12 miles)
Stratosphere: 12 to 50 km (7 to 31 miles)
Mesosphere: 50 to 85 km (31 to 53 miles)
Thermosphere: 85 to 600 km (53 to 375 miles)
Exosphere: 600 to 10,000 km (375 to 6,200 miles)

pyr

Greek root for "fire, heat"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

A HOT Discovery
In 1826 John Walter used a stick to stir a pot containing antimony sulfide, potassium chlorate, and sulfur. Some of the mixture stuck to the end of the stick, and when he tried to scrape off the dried residue, the stick caught fire. The "friction lighters" were three inches long and neatly in a box with a piece of sandpaper.

geo

Greek root for "earth"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Earthquake Faults
THRUST FAULT: one block of crust slides on top of another.
STRIKE-SLIP FAULT: rocks are sliding past each other horizontally, with little to no vertical movement.

manu

Latin root for "hand"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

A Handy Math Trick
1. Label your finger tips with numbers 6-10.
2. Touch the two finger tips that correspond to the math fact (8 x 7).
3. Count by 10s on the two touching fingers and all the fingers below them.
4. Multiplying the fingers above the touching fingers (2 x 3 = 6).
5. Add the numbers from step 3 (50) and Step 4 (6) and you have the answer, 56.

mort

Latin root for "death"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Mummies
Ancient Egyptians believed that they had to preserve their bodies so they could use them in the afterlife, so they developed a method of mummification. This process involved removing the organs and covering the body in a sheet called a sarcophagus.
1. The body was washed and purified.
2. Organs were removed. Only the heart remained.
3. The body was filled with stuffing.
4. The body was dried by covering it with a salt called natron.
5. After 40 - 50 days the stuffing was removed and replaced with linen or resin.
6. The body was wrapped in linen strips and covered in a sheet called a sarcophagus.
7. The body was placed in a stone coffin called a sarcophagus.

ped

Latin root for "foot"

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

Meaning: _____

Doodle: _____

One Small Step...
Upon taking his first step on the moon in 1969, Neil Armstrong uttered what is now one of the most famous one-liners. "That's one small step for man, and one giant leap for mankind." But strangely, this quote is far from clear because "man" and "mankind" are essentially synonyms. Armstrong later claimed he said "one small step for a man," which would make more sense. Without the article "a," Armstrong's quote doesn't make a distinction between a single individual and all of humanity.

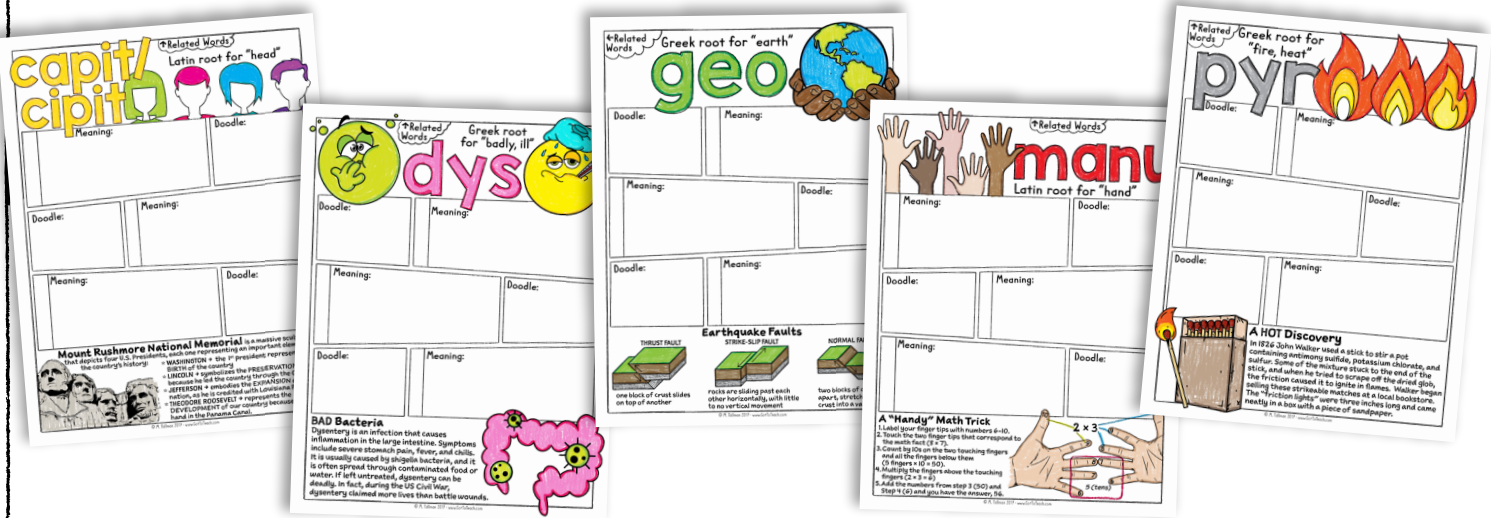
GREEK & LATIN ROOTS **SKETCH NOTES**

[BOOK 2]

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GREEK & LATIN ROOTS SKETCH NOTES



WHY GREEK AND LATIN ROOTS?

Almost 70 percent of the English language is derived from Latin and Greek languages. When we teach students these “building blocks,” they can recognize and decode unfamiliar words that are related to a known root. It is also increasingly important to explicitly teach students the meanings of Greek and Latin roots as they encounter the very technical vocabulary found in science and other content areas.

WHY SKETCH

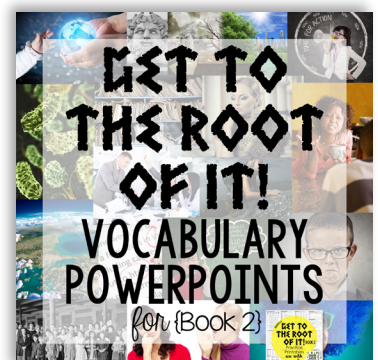
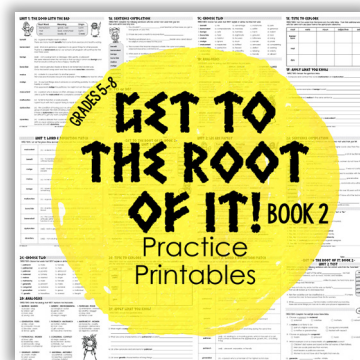
Sketch notes present your students with a meaningful and engaging activity that they will love. Doodle notetaking activates verbal and visual modalities to capture concepts. The whole brain is absorbed in hearing, synthesizing, and retaining ideas. This high level of engagement not only helps with retention of the content, but it also leaves little room for distraction.

WHAT IS INCLUDED?

When completed, this resource will include a completely unique doodle page for 60 different Greek and Latin roots.

TAKE IT TO THE NEXT LEVEL!

These roots are organized in 20 units (3 roots per unit); these units correspond to the units in [Get to the Root of it \[Book 2\]](#). You do not need to have Get to the Root of It [Book 2] to use these doodle notes, but if you are looking for more structured word work for your students, you can learn more about it [HERE](#).



GREEK & LATIN ROOTS SKETCH NOTES

Student word lists: Each page comes with a list of related words. Students can choose three words from the list to use on their doodle notes page.

The sections labeled "meaning" can be used in two ways: students can either write the definition here or use the word in context. Using the word in context is typically more effective for understanding meaning as opposed to simply writing a definition.

Students have room for their own doodle for each of the three words.

The bottom portion of each page includes a multidisciplinary "fun fact" that relates to the root. These fun facts make cross-curricular connections to trivia, math, science, history, or art. Each one of these factoids is written specifically for the focus root of each page. They are not only high-interest (great for student engagement), but they also help students understand and retain the meaning of each root.

Students will write related words around the border of the page.

cycle • cyclical • cyclone • cyclops • encyclopedia • motorcycle • recycle • recyle • tricycle • unicycle

cycl
Greek - "circle"

Related Words
cycle • cyclical • cyclone • cyclops • encyclopedia

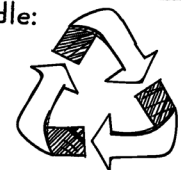
Greek root for "circle"
CYCL

Doodle: 

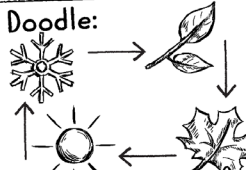
Meaning:
a large-scale, atmospheric wind-and-pressure system characterized by low pressure at its center and by circular wind motion, counterclockwise in the Northern Hemisphere, clockwise in the Southern Hemisphere.

recycle

Meaning:
(v) to treat or process used or waste materials so as to make suitable for reuse
Many of the plastic pop bottles which are recycled are used to make fleece jackets.

Doodle: 

cyclical

Doodle: 

Meaning:
Because the Native Americans were very familiar with the cyclical nature of the seasons, they stockpiled food during the summer and fall in preparation for the harsh winters.

The Water Cycle

1. Water evaporates when it is warmed by the sun.
2. The water vapor cools as it rises in the atmosphere and condenses.
3. The water then precipitates in the form of water, snow, sleet, hail, etc.
4. The water flows into streams, rivers, lakes, oceans, and groundwater.

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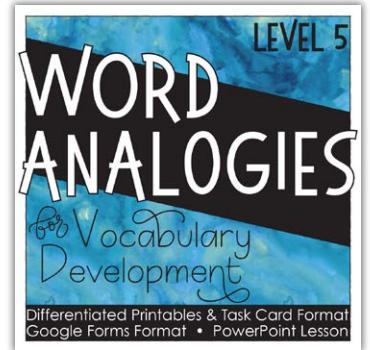
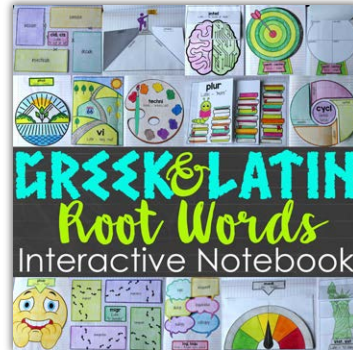
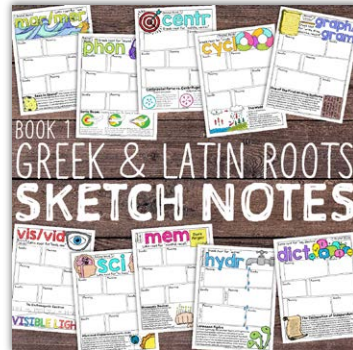
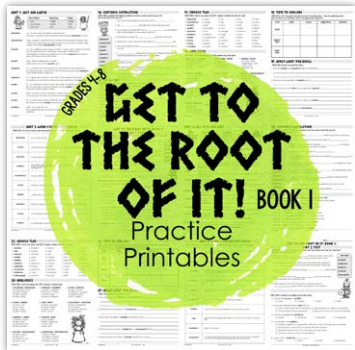


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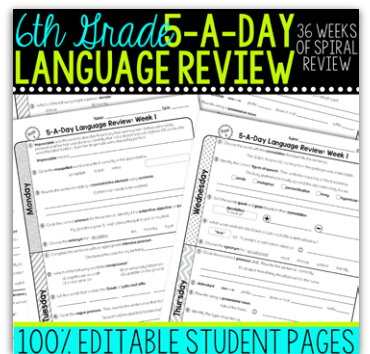
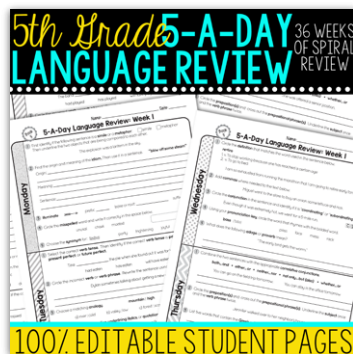
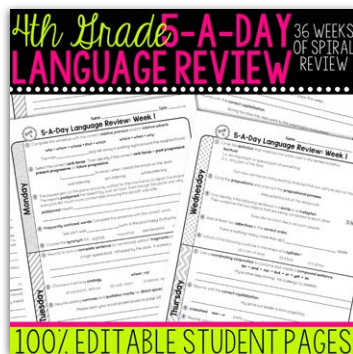
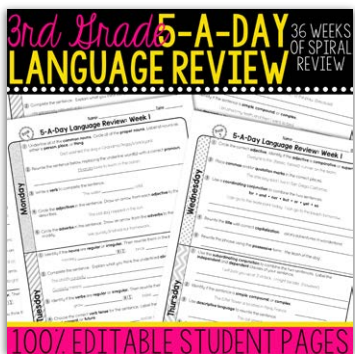


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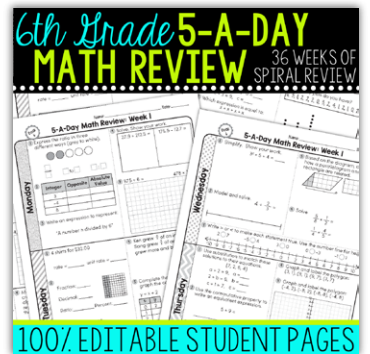
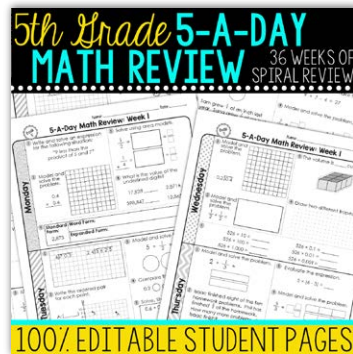
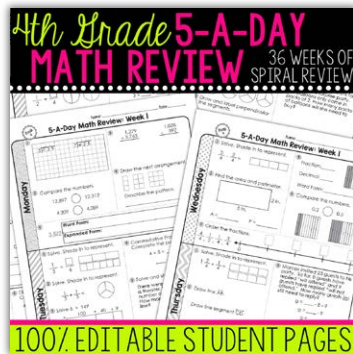
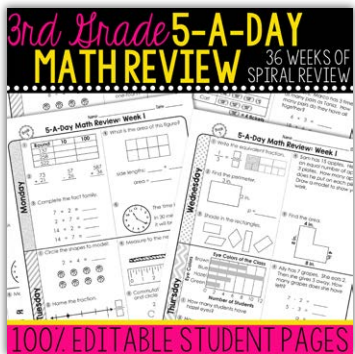
VOCABULARY RESOURCES



DAILY LANGUAGE REVIEWS (GRADES 3-8)



DAILY MATH REVIEWS (GRADES 3-6)



HANDS-ON MATH TILES

