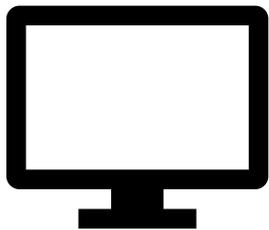


CARBON CYCLE



DIGITAL



PRINT

CARBON CYCLE

Did you know that humans are about 18 percent carbon? Carbon is the basic building block of all life forms, including almost all organic and non-organic things. All living organisms have carbon. Carbon is the 6th element on the Periodic Table of Elements with an atomic mass of 12.011. It is among the most stable, versatile, and abundant elements.

Carbon is used to create millions of compounds. It is also present in all life forms through carbohydrates, sugar, DNA, and cells. Living organisms either take in carbon to manufacture food (plant life) or expel oxygen (animal life).

Carbon is also essential in various industries. Carbon is an element in carbon dioxide. Without carbon dioxide, the earth would freeze. The atmosphere, lithosphere, and biosphere all have carbon in various forms. Within the atmosphere, "sources" release carbon while "sinks" absorb carbon.

Carbon moves from place to place in areas called reservoirs. It is constantly reused and recycled. This process is called the carbon cycle. While the amount of carbon on earth is a fixed amount, carbon in the various reservoirs varies due to photosynthesis, breathing, and burning fossil fuels. The carbon cycle works closely with the oxygen cycle.

Carbon sources include:

- Volcanic eruptions
- Respiration (animals and humans)
- Decay (dead matter)
- Combustion of fossil fuels
- Natural processes (conversion of limestone to lime, metamorphism of rocks, etc.)
- Warm-water bodies (ocean)

Carbon sinks include:

- Plants, algae, and a few strains of bacteria
- Cold-water bodies
- Landfills

There are three steps to the carbon cycle. First, plants use carbon dioxide from the air, energy from sunlight, and water. Photosynthesis happens when plants take carbon dioxide out of the atmosphere. Carbon dioxide mixes with water. Plants use the sun's energy to make sugar and oxygen.

About what percent of a human is carbon? *

18

3

12

32

What type of rain can excess carbon cause? *

Frozen

Acid

Insidious

None of the above

What is a word for when plants and animals rot? *

Cytokinetic

Kinesis

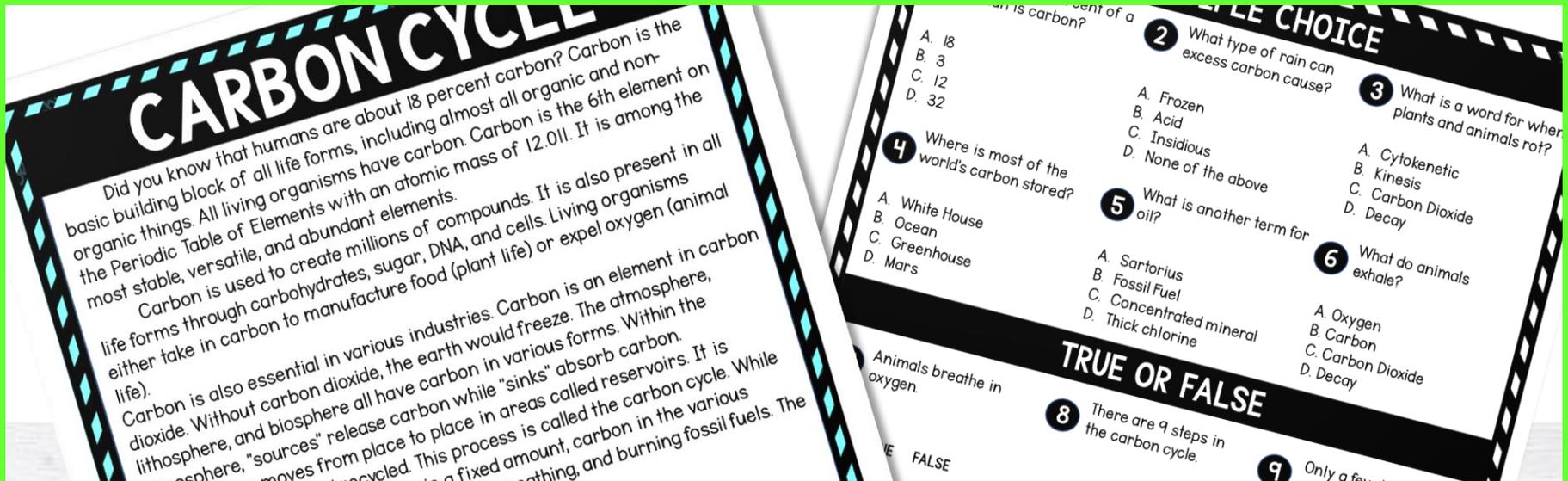
Carbon Dioxide

Decay

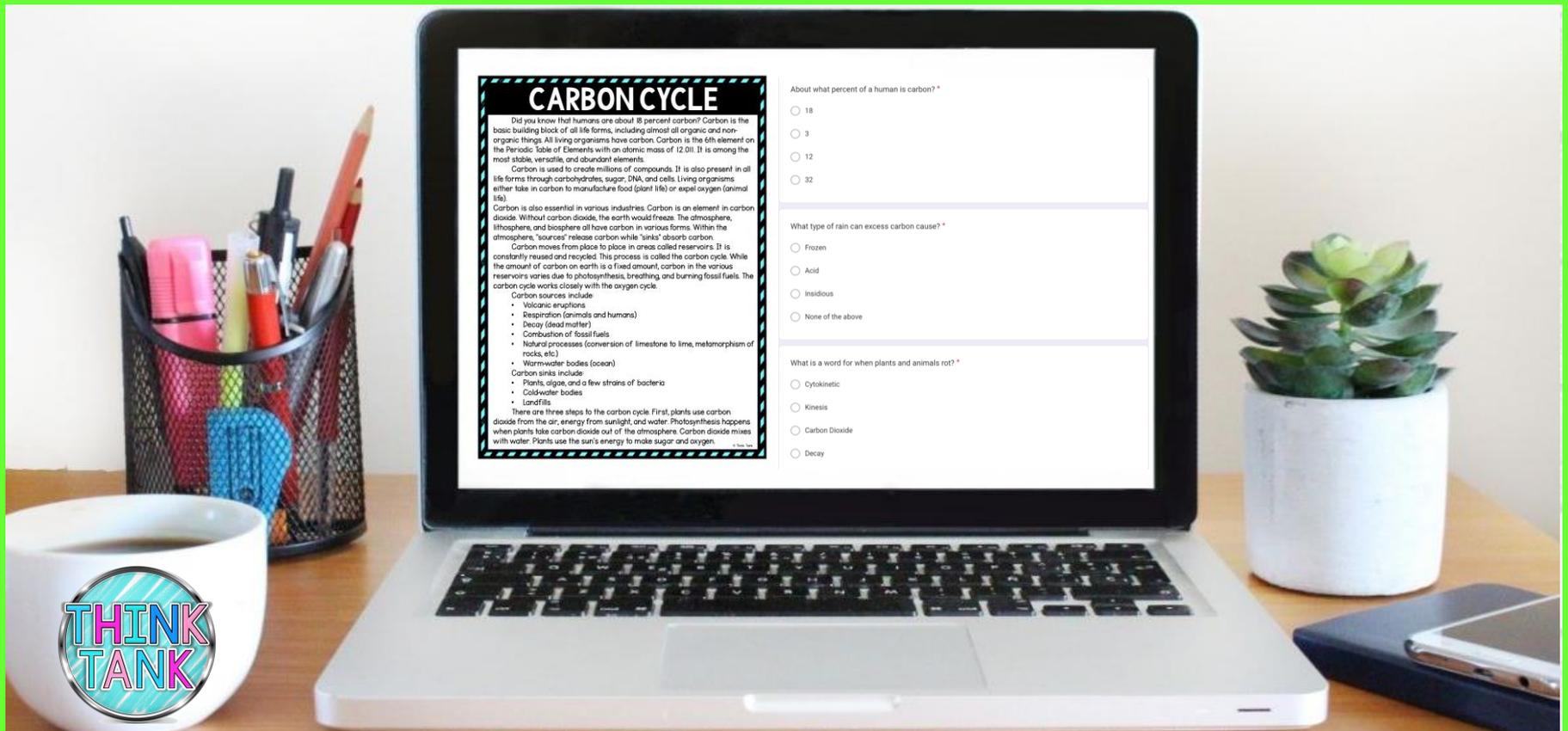


READING PASSAGE

15 QUESTIONS



DIGITAL OR PRINT



INCLUDED

- ✓ READING PASSAGE
- ✓ TEACHER DIRECTIONS
 - ✓ ANSWER KEY
 - ✓ 15 QUESTIONS
 - ✓ SELF-GRADING
- ✓ PRINTABLE VERSION
- ✓ DIGITAL VERSION



QUESTION TYPES

-  **MULTIPLE CHOICE (6)**
-  **TRUE OR FALSE (9)**
-  **EDITABLE QUESTIONS
(FOR DIGITAL VERSION)**

True

False



STUDENTS NEED

✓ ACCESS TO GOOGLE CLASSROOM™
(IF USING THE DIGITAL FORMAT)

✓ GOOGLE™ ACCOUNTS

✓ KNOW HOW TO ZOOM IN AND ZOOM OUT TO
ENLARGE OR SHRINK THE SCREEN

True

False



BENEFITS

-  SELF-GRADING
-  IMMEDIATE STUDENT FEEDBACK
-  PAPERLESS
-  NO PREP
-  SAVES YOU TIME
-  COMPREHENSION PRACTICE



OPTIONS



FRONT-LOADING



GROUP STATIONS



SUB PLANS



UNIT REVIEW



ENRICHMENT ACTIVITY



DIGITAL



PRINTABLE

