

TCAP 5th Grade Parent-Student Practice Assessment

Question 1

Standard 5.PS1.2

When an ice cube melts into liquid water, what happens to the amount of matter?

- A. The amount of matter increases
- B. The amount of matter decreases
- C. The amount of matter stays the same
- D. The matter disappears completely

Question 2

A student mixes vinegar and baking soda in a sealed plastic bag. The bag fills with gas and puffs up. What happened to the matter?

- A. Some matter disappeared
- B. New matter was created
- C. Only the solid matter stayed; gas is not matter
- D. All the matter stayed inside the bag, just changed form

Questions	Answers	Explanations
1	C	Melting is just a change of form , not a loss of matter. The water still weighs the same as the ice did. Nothing is added or taken away.
2	D	The bubbling makes a gas , which is still matter. Because the bag is sealed, the gas cannot escape, so the total amount of matter stays the same .

Question 3

Standard 5.ESS1.5

Why is summer warmer in the Northern Hemisphere than winter?

- A. The Earth is much closer to the Sun in summer
- B. The Sun gets hotter during summer
- C. The Northern Hemisphere is tilted toward the Sun, receiving more direct sunlight
- D. The Earth spins faster in summer

Question 4

Why does the length of daylight change throughout the year?

- A. The Sun moves closer to Earth in the summer
- B. Earth's tilted axis changes how sunlight reaches different latitudes during its revolution
- C. Clouds block sunlight in the winter
- D. The Moon blocks the Sun during some seasons

Questions	Answers	Explanations
3	C	Summer happens when a part of Earth is tilted toward the Sun . This tilt gives that region more direct (stronger) sunlight and longer days, causing warmer temperatures—not because Earth is closer to the Sun
4	B	Earth is always tilted in the same direction as it orbits the Sun. Because of this tilt, different parts of Earth receive different amounts of sunlight at different times of the year. This causes longer days in summer and shorter days in winter , which also helps create the seasons.