



EOG Night 2022

8th Grade Science

Welcome!

A word from the **HMMMS** Administration:

[EOG](#)

[Tips](#)





Tips & Tricks

On the next 15 slides you will see a variety of sample questions from past EOGs. Use the following test taking strategies to help answer the questions:

1. Read every question closely (including all answer choices!)
2. Prioritize your questions, you can skip questions you find more difficult and go back to them later.
3. Look out for keywords that are **bolded** and/or *italicized*. (ie *best*, *most likely*, *greatest*, *least likely*) These words indicate that there are multiple choices that are true for the problem.
4. Make sure you answer all of the questions.
5. Take your time and remember to do the best you can.

EOG PRACTICE

1 Which is a compound?

A sodium

B sugar

C nitrogen

D air



PRACTICE

2 This table provides information about some group 1 elements.

Element	Melting Point (°C)
3 Li Lithium 6.941	181
11 Na Sodium 22.99	98
19 K Potassium 39.10	63
37 Rb Rubidium 85.47	?
55 Cs Cesium 132.91	29
87 Fr Francium (223)	27

Which is the **best** estimate of the melting point of Rubidium (Rb)?

- A 25°C
- B 40°C
- C 75°C
- D 184°C

- 3 Two different liquids are poured together in an open container. Bubbles begin to form. After the bubbling stops, it is determined that the total weight of the two liquids is less than before they were poured together. Which **best** describes this observation?
- A Some of the atoms during the reaction escaped into the air.
 - B Some of the atoms during the reaction were destroyed.
 - C Some of the atoms during the reaction became heavier.
 - D Some of the atoms during the reaction changed to a different kind of atom.

- 5 Which **best** describes a method of obtaining energy that may cause changes in water temperature and harm to fish populations?
- A burning coal
 - B using ethanol in cars
 - C installing solar panels on a home
 - D generating electricity in a hydroelectric power plant

6 Which is a nonrenewable resource?

A oil

B sunlight

C water

D wood

Which will ***most likely*** result if there is increased upwelling in a coastal area?

- A more aquatic life
- B less nutrients in the water
- C higher water temperatures
- D fewer nitrates

Which **best** determines the health of a lake used as a source of freshwater?

- A its depth and width
- B its temperature and pH
- C its location and depth
- D its temperature and depth

A scientist finds the bones of a dinosaur. What could help the scientist determine the approximate age of the dinosaur bones?

- A the birds living in the area of the bones
- B the weather conditions in the area of the bones
- C the kinds of trees living in the area of the bones
- D the index fossils in the area of the bones

Which **best** describes how ice cores are important to the study of geologic history?

- A They show unconformities, which signal changes in deposition.
- B They hold index fossils, which are used to date the different ice cores.
- C They contain evidence showing changes in the atmospheric composition over time.
- D They follow the Law of Superposition, which gives reasons for extinctions of species.

Why do doctors suggest that people get a flu vaccine each year?

- A Viruses replicate more rapidly over time.
- B Viruses can mutate from year to year.
- C Vaccines are absorbed by the body after a year.
- D Vaccines get stronger over time.

Which of these careers would a student studying biotechnology ***most likely*** pursue?

- A electrical engineering
- B astronomy
- C agricultural research
- D geology

Which **best** determines the number of wolves that can live in an area?

- A the amount of snow in the area each year
- B the number of birds that live in the area
- C the number of trees in the area
- D the amount of food available in the area

Tigers and household cats are members of the same family; however, their sizes are vastly different. What is the cause of this difference?

- A biochemical makeup
- B behavioral makeup
- C genetics
- D habitat size

Why is a healthy diet important?

- A It maintains a constant body temperature.
- B It prevents damage to internal organs.
- C It makes oxygen for all the cells in the body.
- D It supplies the body's needs for growth and energy.

Which **best** explains the importance of nitrogen in the cycling of energy and matter?

- A Nitrogen increases protein production in plants.
- B Nitrogen decreases protein production in plants.
- C Nitrogen decreases the effectiveness of photosynthesis.
- D Nitrogen increases the effectiveness of photosynthesis.

Source: 2015 & 2019 NC READY
End-of-Grade Assessment Science
(Released Form)

Author: North Carolina Department of Public
Instruction