

# Journey of A Rock

This app explores the rock cycle and rocks in general. Use this app to supplement your lesson on rocks and the rock cycle.

For game help, visit [www.carpix.org/RockCycle.pdf](http://www.carpix.org/RockCycle.pdf)

For additional help, to request a refund or to submit feedback, email [rockcycle@caripix.org](mailto:rockcycle@caripix.org)

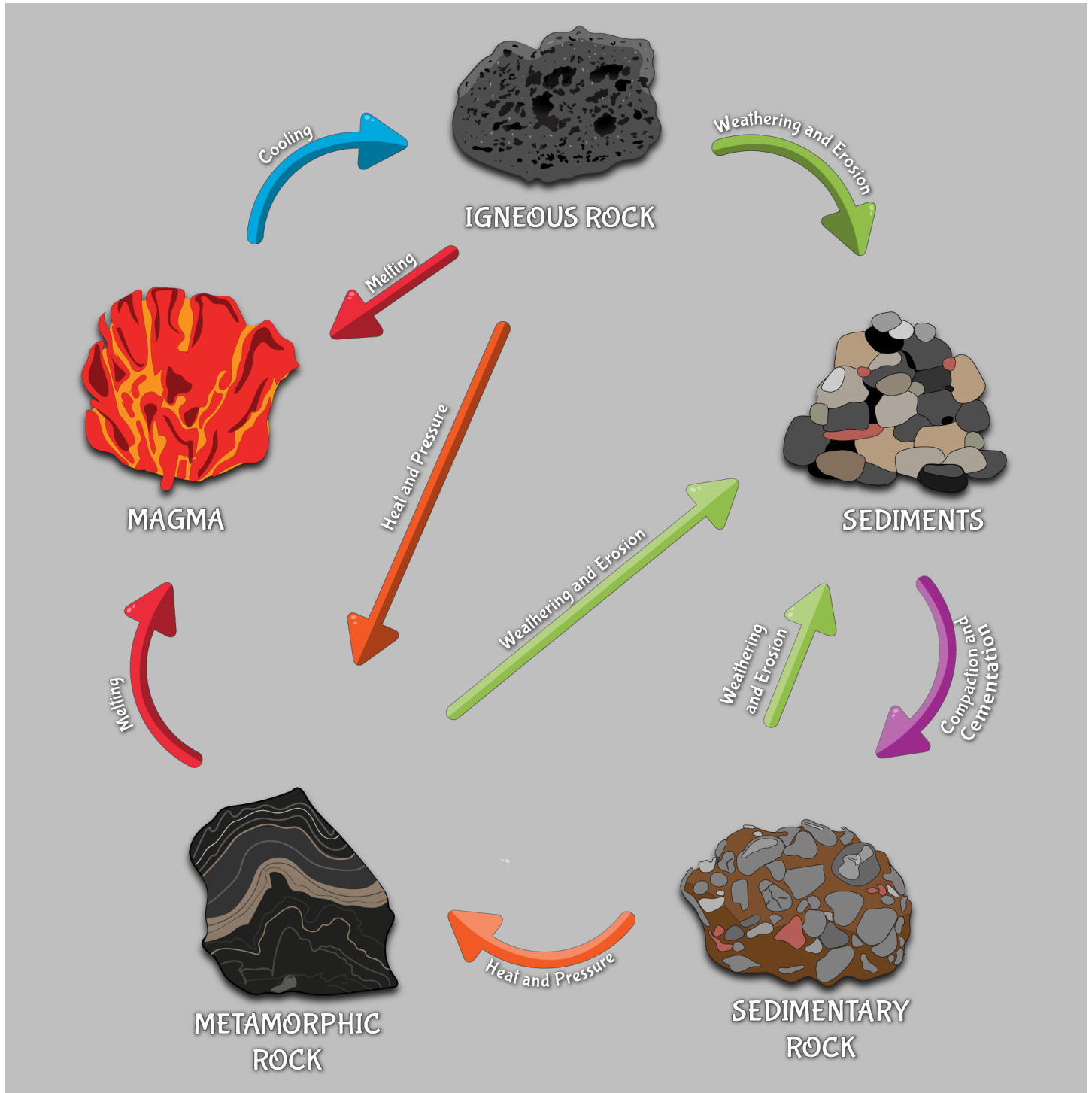
The game component of this app is based on NASA's Rocking the Rock Cycle (<https://www.nasa.gov/sites/default/files/rockingtherockcycle.pdf>) and allows students to model the journey that a rock may undergo as it transforms from rock type to rock type.

Use the student worksheet below to help students think critically as they play the game.

Allow students to explore the glossary and the rock cycle interactive page (including the rock profiles) before taking the quiz.



# The Rock Cycle



Name: \_\_\_\_\_

# Quiz

1. What rock has a name that means "to transform?"
  - A. Igneous Rock
  - B. Sedimentary Rock
  - C. Metamorphic Rock
2. Rocks cannot be formed deep under the ocean.
  - A. TRUE
  - B. FALSE
3. A rock is made up of one or more minerals.
  - A. TRUE
  - B. FALSE
4. An intrusive igneous rock forms when lava from a volcano cools on land.
  - A. TRUE
  - B. FALSE
5. The cooling of magma or lava from a liquid to a solid is referred to as...
  - A. Melting
  - B. Crystallization
  - C. Cementation
  - D. Compaction
6. A naturally forming solid with one specific chemical composition is called...
  - A. Rock
  - B. Lava
  - C. Magma
  - D. Mineral
7. The settling of sediment out of a moving medium like river water is called...
  - A. Deposition
  - B. Cementation

- C. Erosion
- D. Weathering

8. Which term refers to the movement of sedimentary material from one location to another?
- A. Subduction
  - B. Transportation
  - C. Uplift
  - D. Pressure
9. An extrusive igneous rock forms when lava cools underground.
- A. TRUE
  - B. FALSE
10. What type of rock is made from sediments?
- A. Igneous
  - B. Metamorphic
  - C. Sedimentary
11. Ocean waves carving crevices in coastal rocks is an example of...
- A. Biological Weathering
  - B. Physical Weathering
  - C. Chemical Weathering
12. Which sedimentary grains are between 0.006 and 0.2 cm in size?
- A. Silt
  - B. Sand
  - C. Clay
  - D. Gravel
13. Grains of silt have sizes...
- A. smaller than 0.0004 cm
  - B. between 0.0004 and 0.006 cm
  - C. between 0.006 and 0.2 cm
  - D. greater than 0.2 cm
14. Granite is an example of...
- A. an igneous rock
  - B. a metamorphic rock
  - C. a sedimentary rock

15. Which of the following is a sedimentary rock?

- A. Basalt
- B. Gneiss
- C. Conglomerate

16. Which of the following is a metamorphic rock?

- A. Gneiss
- B. Basalt
- C. Sandstone

17. It will take millions of years to weather a rock on the Earth's surface.

- A. TRUE
- B. FALSE

18. Lava on the surface takes millions of years to cool.

- A. TRUE
- B. FALSE

19. Magma can weather into sediments.

- A. TRUE
- B. FALSE

20. Blistering winds can break and weather rocks.

- A. TRUE
- B. FALSE











