Rock Cycle Path

Trace how rock materials change over time.

6.10 "Earth and space. The student understands the rock cycle and the structure of Earth. The student is expected to: differentiate between the biosphere, hydrosphere, atmosphere, and geosphere and identify components of each system..."

NAME _____ DATE _____

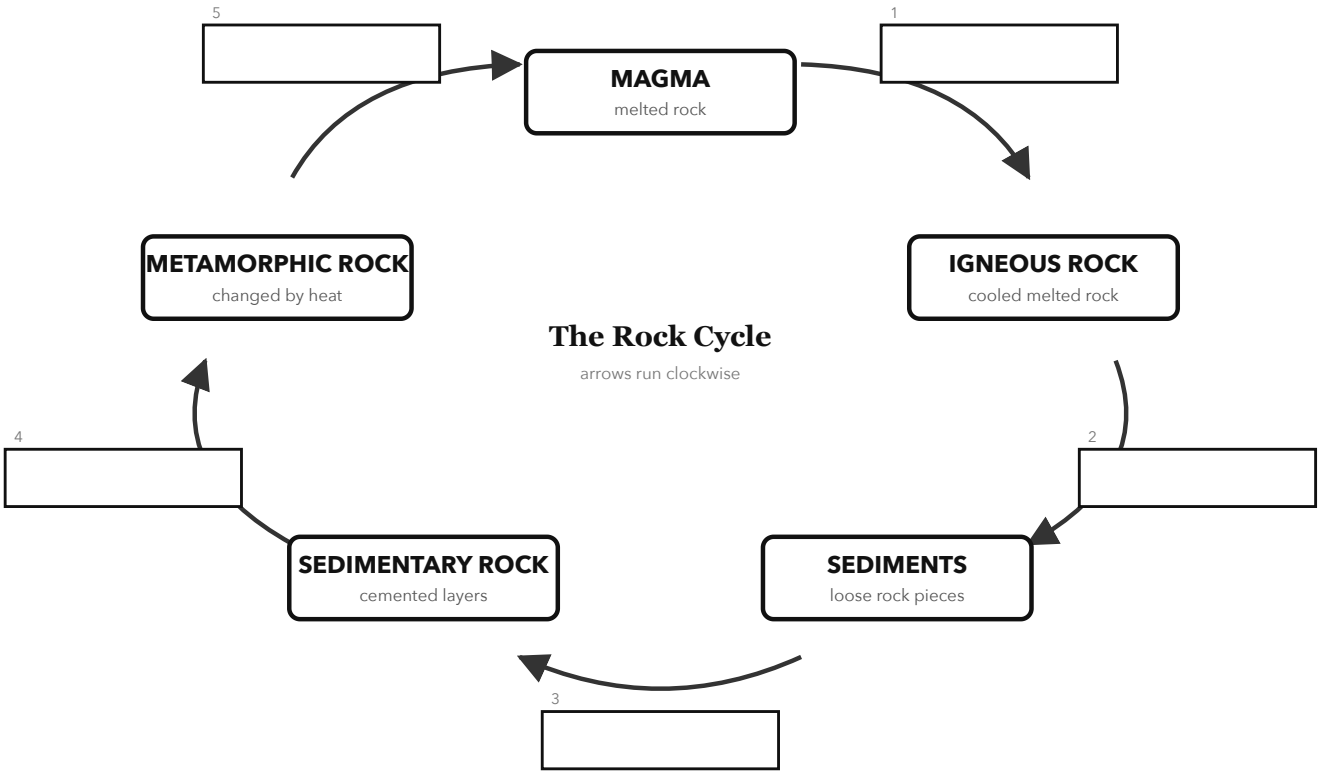
1 LABEL THE MODEL

Word bank below

Follow the arrows around the model. Write one process from the word bank in each numbered box.

WORD BANK

- compaction and cementation
- cooling and crystallization
- heat and pressure
- melting
- weathering and erosion



2 RUN THE MODEL

Use your finished diagram

1. Which process changes sediments into sedimentary rock?

2. What process happens to metamorphic rock before magma forms?

3. Which type of rock forms after magma cools and crystallizes?

3 CHECK IT

Before you turn it in

- [ ] I can trace the cycle in order.
- [ ] I can name each process on an arrow.
- [ ] I can explain how one rock type changes.

TEST THE MODEL

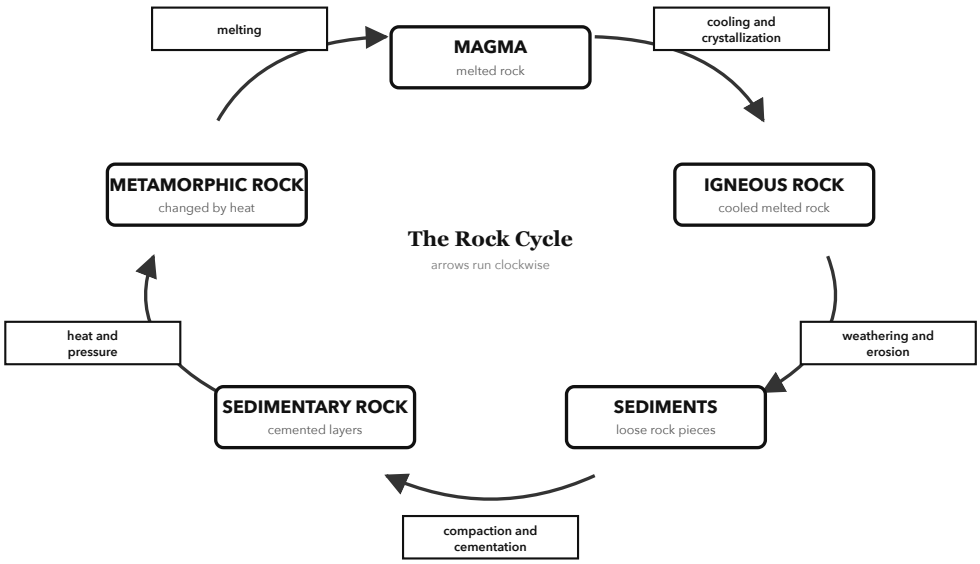
What is one way the real rock cycle can change that this model does not show?

ANSWER KEY

Rock Cycle Path

GRADE 6 · TEKS 6.10

PART 1 · COMPLETED MODEL



PART 2 · RUN THE MODEL

1. **Compaction and cementation.** (Which process changes sediments into sedimentary rock?)
2. **Melting.** (What process happens to metamorphic rock before magma forms?)
3. **Igneous rock.** (Which type of rock forms after magma cools and crystallizes?)

TEST THE MODEL (SAMPLE ANSWERS)

- A rock can weather into sediments from more than one stage in the cycle.
- Rocks can be moved by plate tectonics before they change.

The model shows one simplified path through the rock cycle. In nature, rocks can follow multiple pathways, and processes may occur over very long periods of time.