Name

Rock Cycle Cause-and-Effect Detective

Instructions: Below is a list of geological processes (the "cause") and a list of rock changes (the "effect"). Each process matches with only one effect. Your job is to play detective: connect each cause to its correct effect by writing the matching letter before its corresponding number. Be careful: some effects might sound similar, but the details matter!

- Cooling and solidification of magma
- Compaction and cementation of sediments
- Heat and pressure without melting
- Weathering and erosion by wind, water, or ice
- 5. Melting deep underground
- 6. Deposition of sediments
- 7. Volcanic eruption of lava
- 8. Uplift of rock layers

- A. Rock fragments are laid down in new locations, forming layers.
- B. Sediments harden into sedimentary rock.
- C. Igneous rock forms as magma cools beneath Earth's surface.
- D. Rock is broken down into small particles.
- E. Metamorphic rock forms from existing rock due to intense heat and pressure.
- F. Rock layers rise to the surface where they can be weathered.
- G. Igneous rock forms quickly as lava cools at the surface.
- H. Solid rock melts into magma.



