Name: _____ Date: _____ Hour: _____

GIZMO: ROCK CYCLE QUESTIONS

1. ____ When molten rock undergoes crystallization above ground, what type of rock results?
   a. Intrusive igneous rock
   b. Extrusive igneous rock
   c. Metamorphic rock
   d. Sedimentary rock

2. ____ What combination of processes can transform a metamorphic rock to sediments?
   a. Erosion, crystallization, and melting.
   b. Heating, pressure, and lithification.
   c. Melting, crystallization, and compaction.
   d. Exposure, weathering, and erosion.

3. _____ What sequence of events could lead to magma becoming soil?
   a. Erosion and deposition followed by exposure to heat and pressure
   b. Compression and lithification followed by erosion and deposition.
   c. Crystallization followed by exposure and weathering.
   d. Crystallization followed by increased heat and pressure.

4. ____ Which of the following rock types form from placing other rocks under heat and pressure?
   a. Sedimentary rock
   b. Metamorphic rock
   c. Intrusive igneous rock
   d. Extrusive igneous rock

5. ____ According to the rock cycle, which of the following transitions are possible? Assume an unlimited number of steps.
   a. An intrusive igneous rock becomes a sedimentary rock.
   b. A sedimentary rock becomes soil.
   c. A metamorphic rock becomes an extrusive igneous rock.
   d. All of the above are possible.

6. List the steps that would cause each transformation below.

   A. **Intrusive igneous rock** → **sedimentary rock**: _____

   _____

   B. **Metamorphic rock** → sediment: _____

   _____

   C. Sediment → sedimentary rock: _____

   _____

   D. Sedimentary rock → sediment: _____

   _____