



## RULES (continued)

- When you **land** on a special event follow the instructions.
- You've completed the rock cycle once you have all the different states in your timeline **AND** you've returned to your starting state.

## THE PROCESSES

**Tectonic Burial** is the deformation of rocks caused by extreme pressure over millions of years. It is usually the result of continental collisions or subduction in a region.

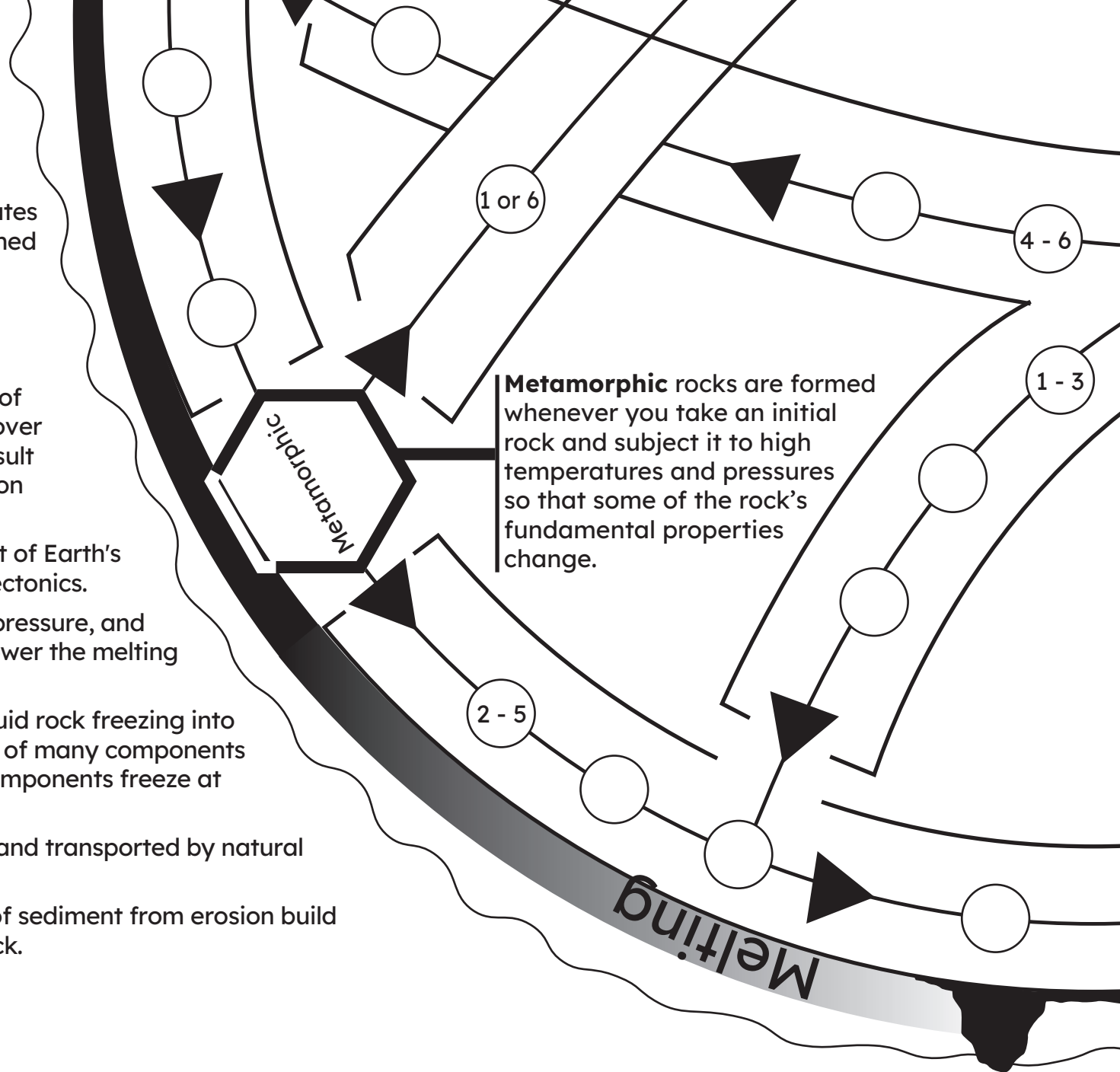
**Tectonic Uplift** is the geologic uplift of Earth's surface that is attributed to plate tectonics.

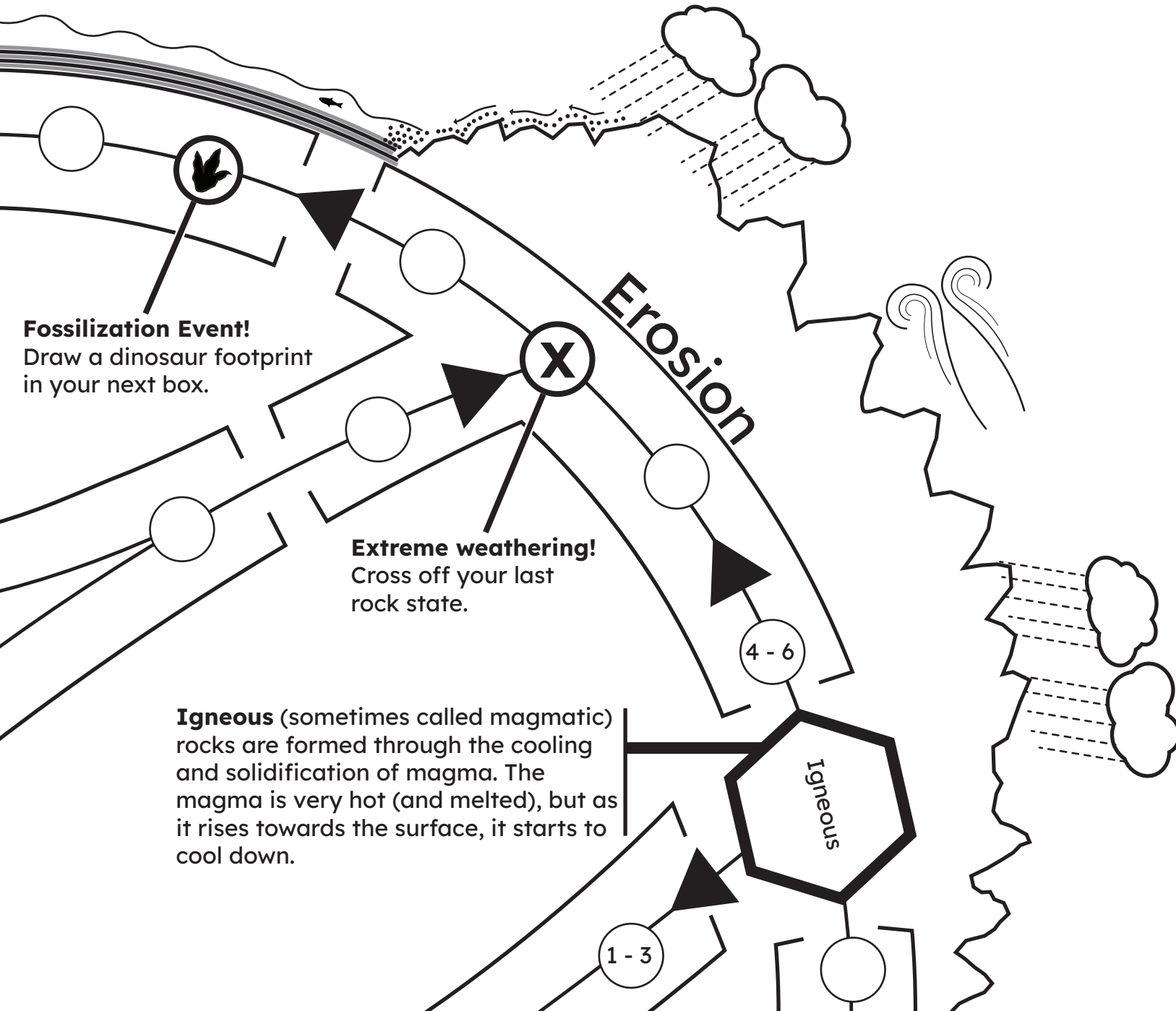
**Melting** happens because of heat, pressure, and the presence of water. Water can lower the melting point of rock.

**Crystallization** is the process of liquid rock freezing into solid rock. Since liquid rock is made of many components the process is complex. Different components freeze at different temperatures.

**Erosion** is when rock is worn away and transported by natural forces like wind and water.

**Sedimentation** happens as layers of sediment from erosion build up and harden into sedimentary rock.





**Fossilization Event!**  
Draw a dinosaur footprint  
in your next box.

**Extreme weathering!**  
Cross off your last  
rock state.

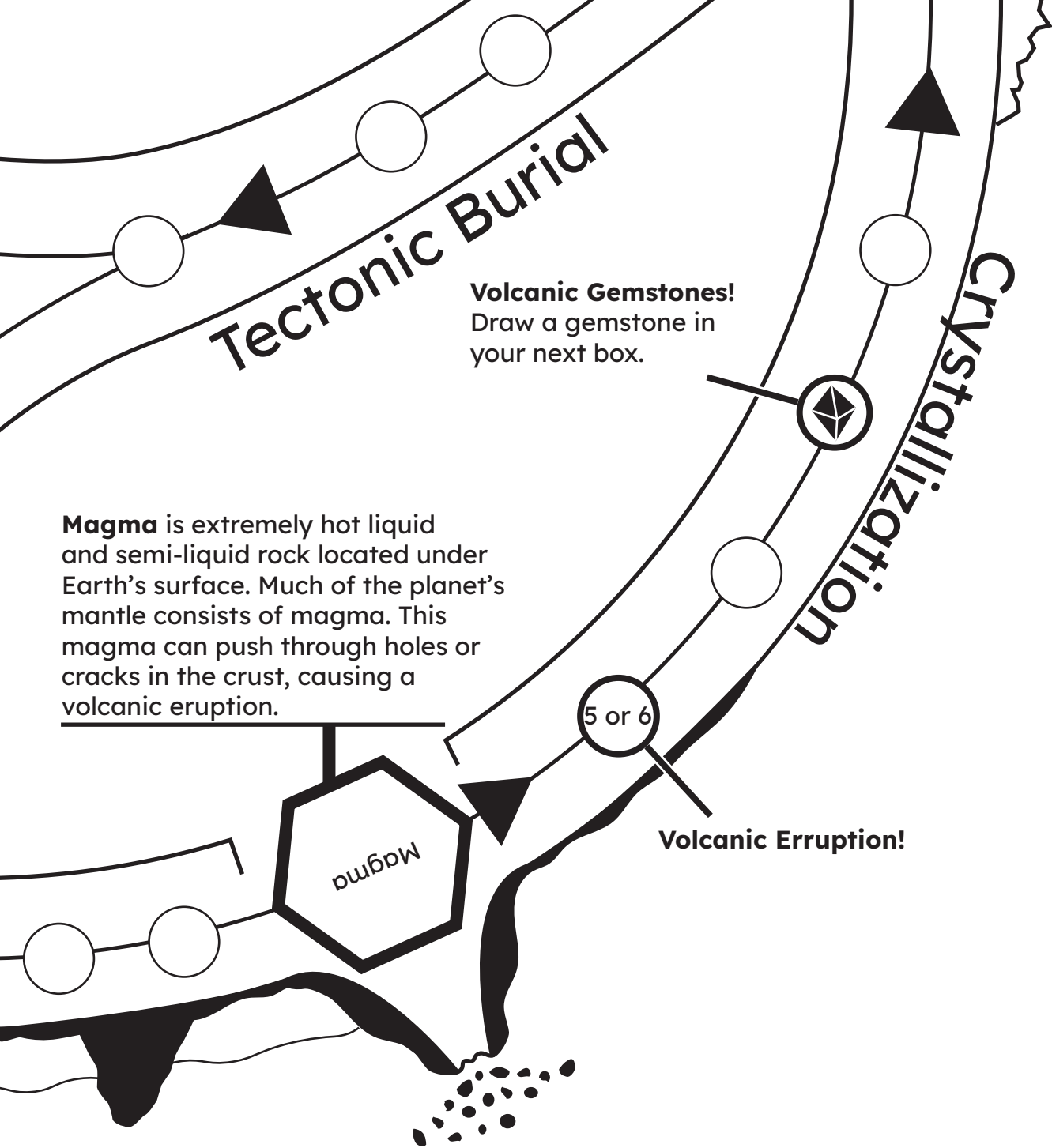
**Igneous** (sometimes called magmatic)  
rocks are formed through the cooling  
and solidification of magma. The  
magma is very hot (and melted), but as  
it rises towards the surface, it starts to  
cool down.

**Erosion**

4 - 6

1 - 3

Igneous



**Tectonic Burial**

**Volcanic Gemstones!**  
 Draw a gemstone in  
 your next box.

**Magma** is extremely hot liquid  
 and semi-liquid rock located under  
 Earth's surface. Much of the planet's  
 mantle consists of magma. This  
 magma can push through holes or  
 cracks in the crust, causing a  
 volcanic eruption.

**Volcanic Eruption!**

**Crystallization**

5 or 6

