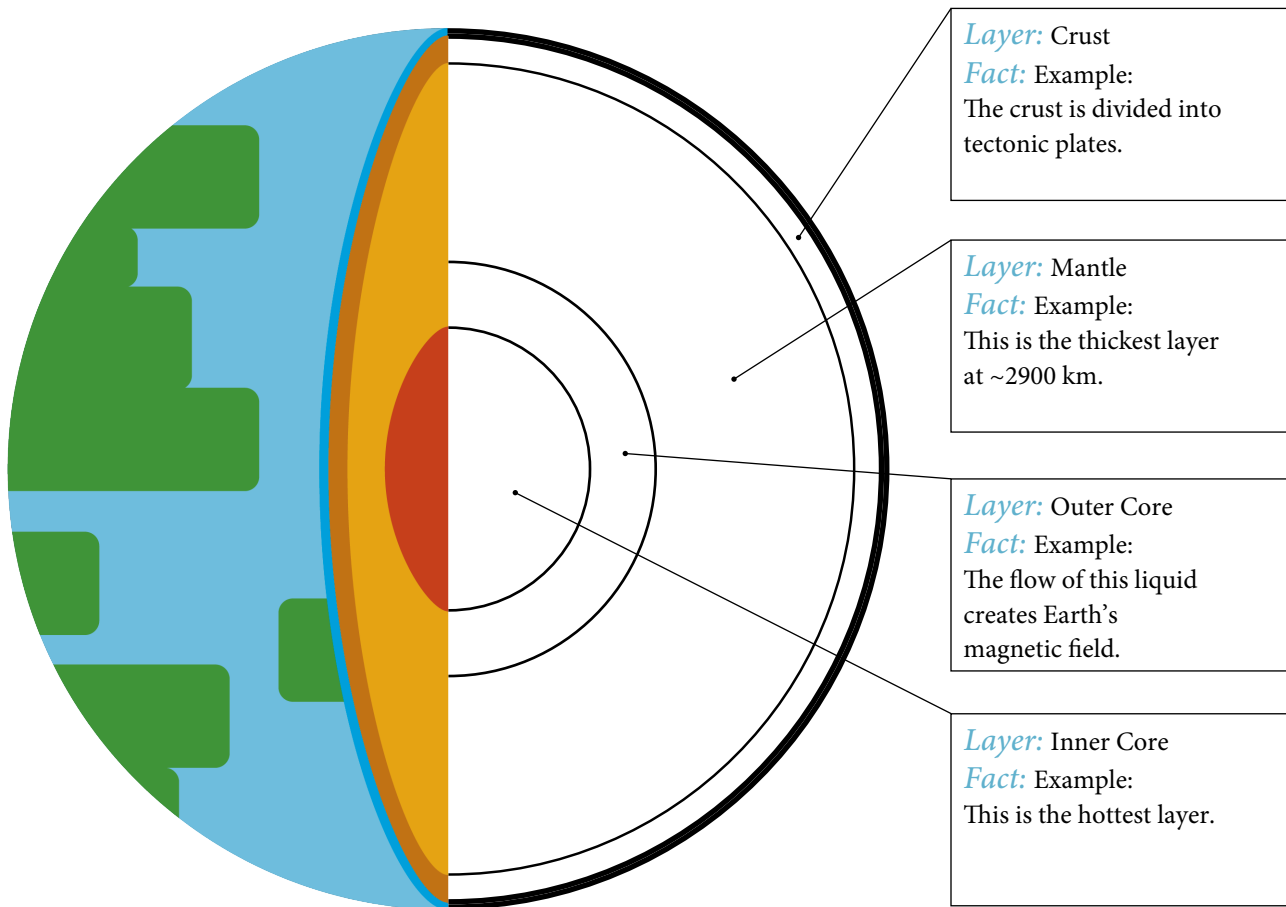


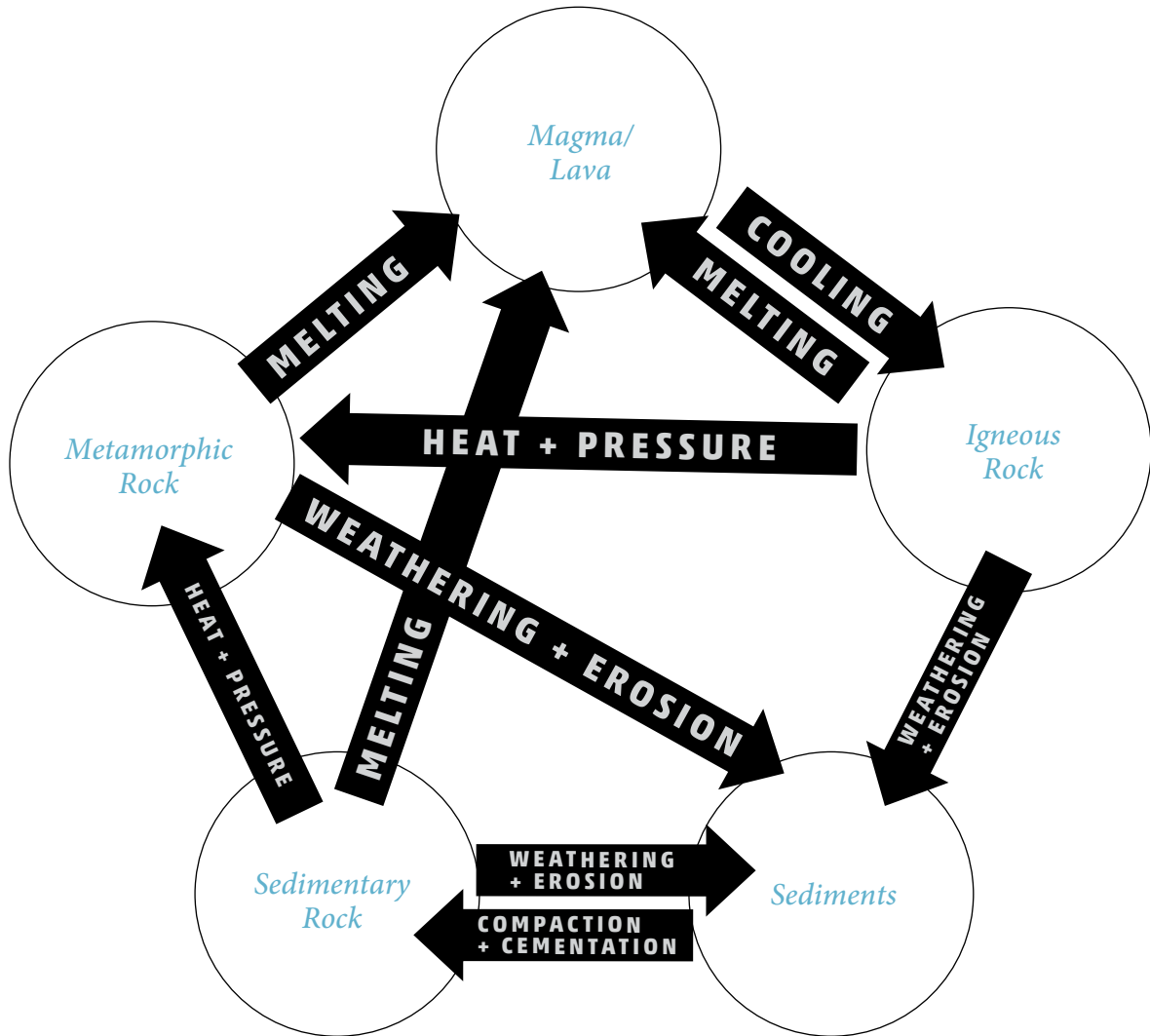
## ACTIVITY 1

### *Earth's Interior*



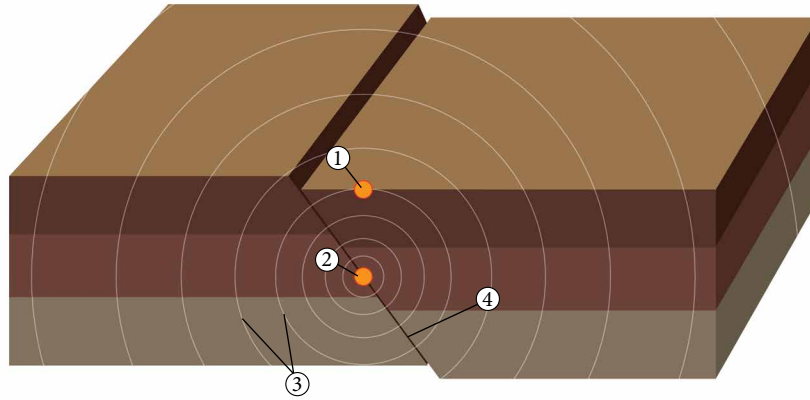
# ACTIVITY 2

## Rock Cycle Roundabout



## ACTIVITY 3

### All Shook Up



- 3 **Seismic Waves:** shock waves caused by an earthquake
- 4 **Fault:** large cracks in the rock caused by strong force
- 2 **Focus:** the point where an earthquake starts
- 1 **Epicentre:** the point on the surface directly above an earthquake disturbance

The Richter scale is used to measure the magnitude of earthquakes. The scale starts at zero and for each increase of 1 magnitude represents a force of 10x increase in ground motion. (e.g., Magnitude 2 earthquakes are 10x stronger than magnitude 1).

How much stronger would a 7 magnitude earthquake be compared to a 4 magnitude?  $10 \times 10 \times 10 =$   
1000 times stronger

## ACTIVITY 4

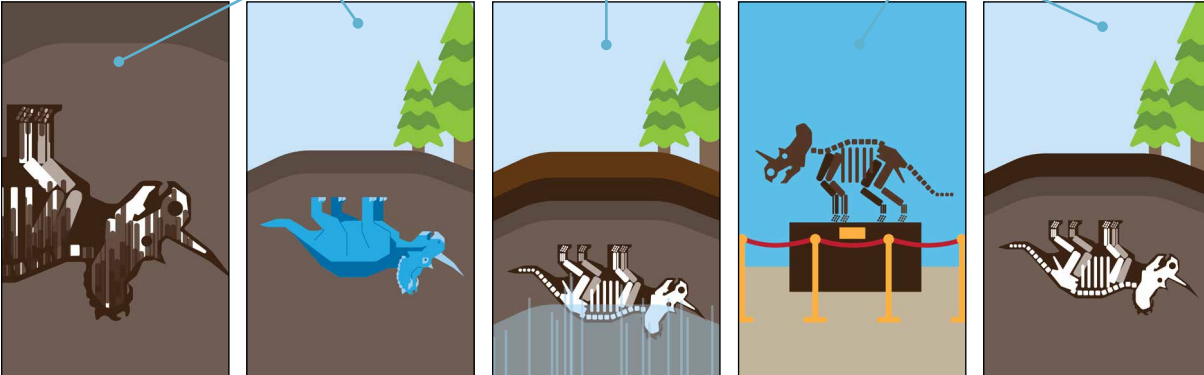
### Disaster Debaters

Answers will vary.

## ACTIVITY 5

### Fossilization Scramble

<p>1. The dinosaur is buried quickly by sediments, protecting it from scavengers and slowing the decay process.</p>	<p>2. The soft parts of the body decay away, leaving behind the hard skeleton.</p>	<p>3. Groundwater carries dissolved minerals down into the rock layer containing the skeleton.</p>	<p>4. The minerals fill the spaces within the tissue, depositing in place and hardening.</p>	<p>5. The organic tissues decay away, leaving a hard fossil behind.</p>
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The diagram consists of five panels illustrating the fossilization process. Panel 1 shows a dinosaur being buried in sediment. Panel 2 shows the dinosaur's body decaying into a skeleton. Panel 3 shows groundwater carrying dissolved minerals down into the rock layer containing the skeleton. Panel 4 shows the minerals filling the spaces within the tissue, depositing in place and hardening. Panel 5 shows the organic tissues decaying away, leaving a hard fossil behind. Lines connect the text boxes to the corresponding panels.

## ACTIVITY 6

### Riddle What Remains

1. **Amber**
2. **Trace Fossil**
3. **Replacement**
4. **Carbonization**
5. **Mummification**
6. **Permineralization**

# ACTIVITY 7

## Making Time

The finished time scale should look like the one below.

