The Journey of a Rock

Guiding Question: How do rocks form and change over time?

Objective: I can describe how rocks change over time and reference the ESRT to determine different steps of the rock cycle.

The Journey of a Rock

Instructions: As you go through the rock cycle, the yellow ovals represent where you currently are in the rock cycle. The green arrows represent your options to move through the cycle.

1. Go to Slide 3. The activity works better if you have the slides in presentation mode, but it will work either way. Click "Start."
2. Document in your "Journey of a Rock" worksheet what you started as (what is circled in yellow?).
3. Choose what path you would like to take (**click a green arrow** - there is only one choice for magma).
4. Once you read about what happened to you, document the process you underwent.
5. Click "Go to next slide."
6. Document in your worksheet what you are now.
7. Choose your next path, and document it.
8. Continue this process until we come back as a whole group.

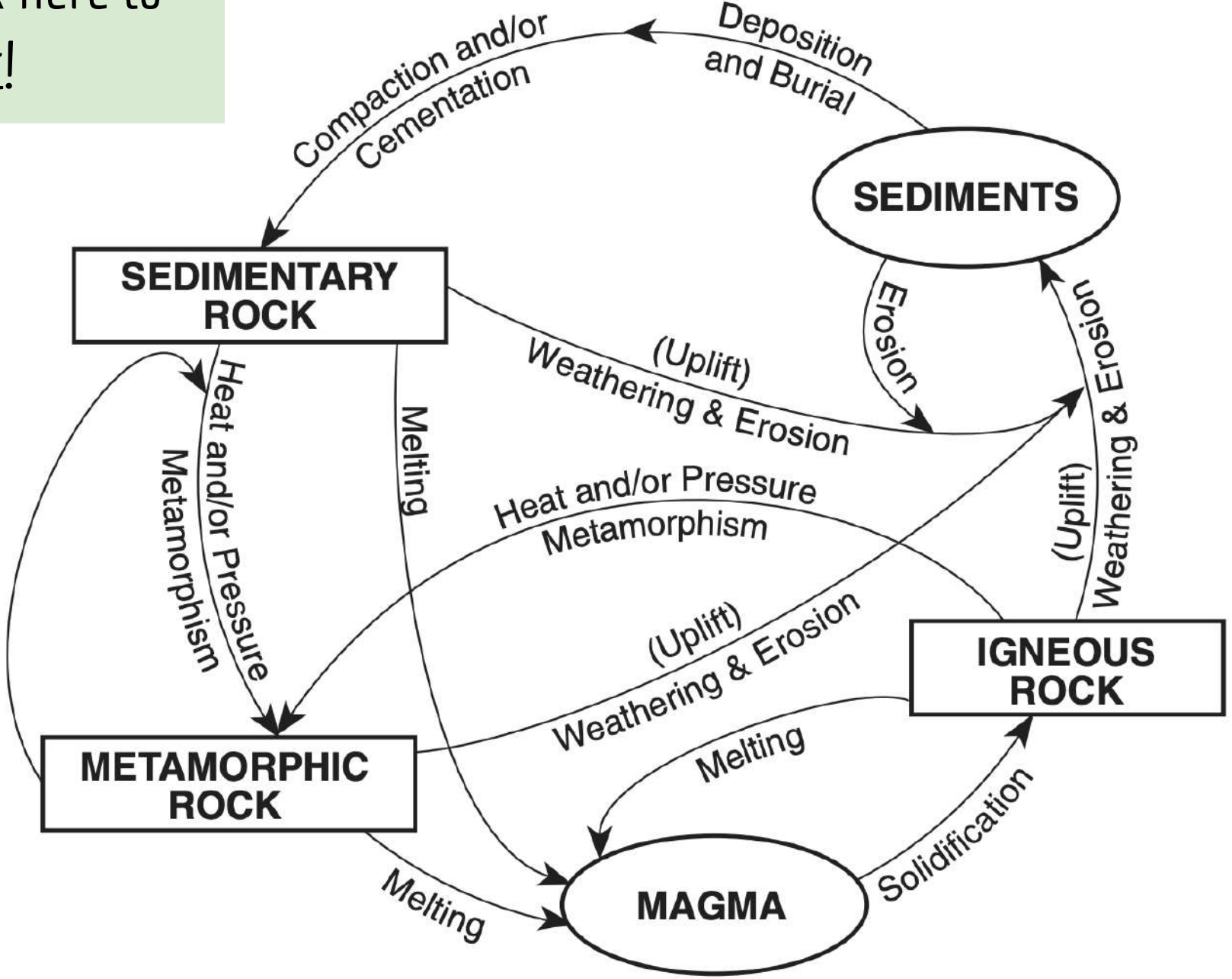
Even though you're in a group, everyone should fill out their own worksheet.

The Journey of a Rock

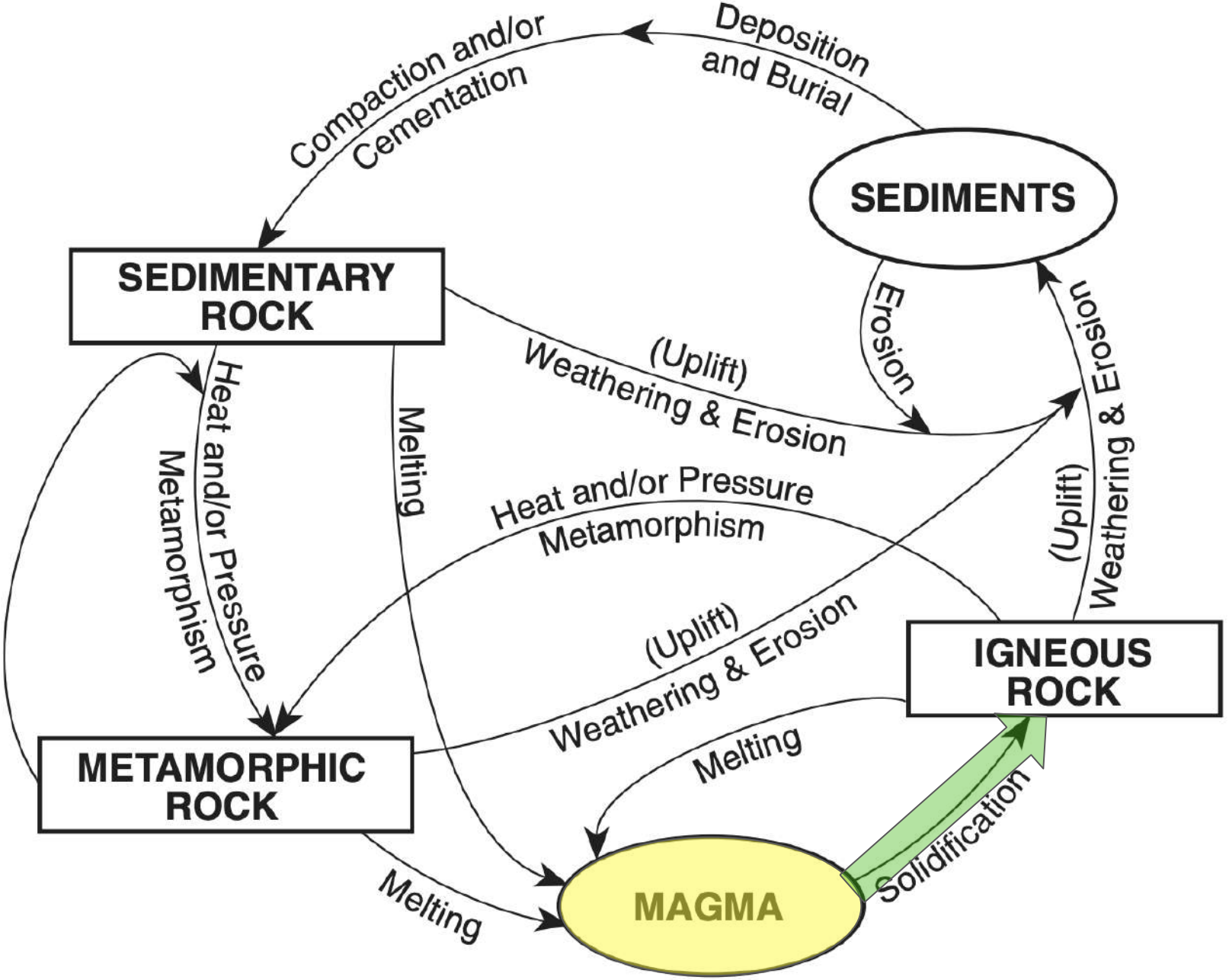
Your goal is to become an igneous, sedimentary, and metamorphic rock by the time we finish the activity

Click here to start!

Rock Cycle in Earth's Crust



Rock Cycle in Earth's Crust




Solidification
You solidified from magma and turned into an igneous rock!
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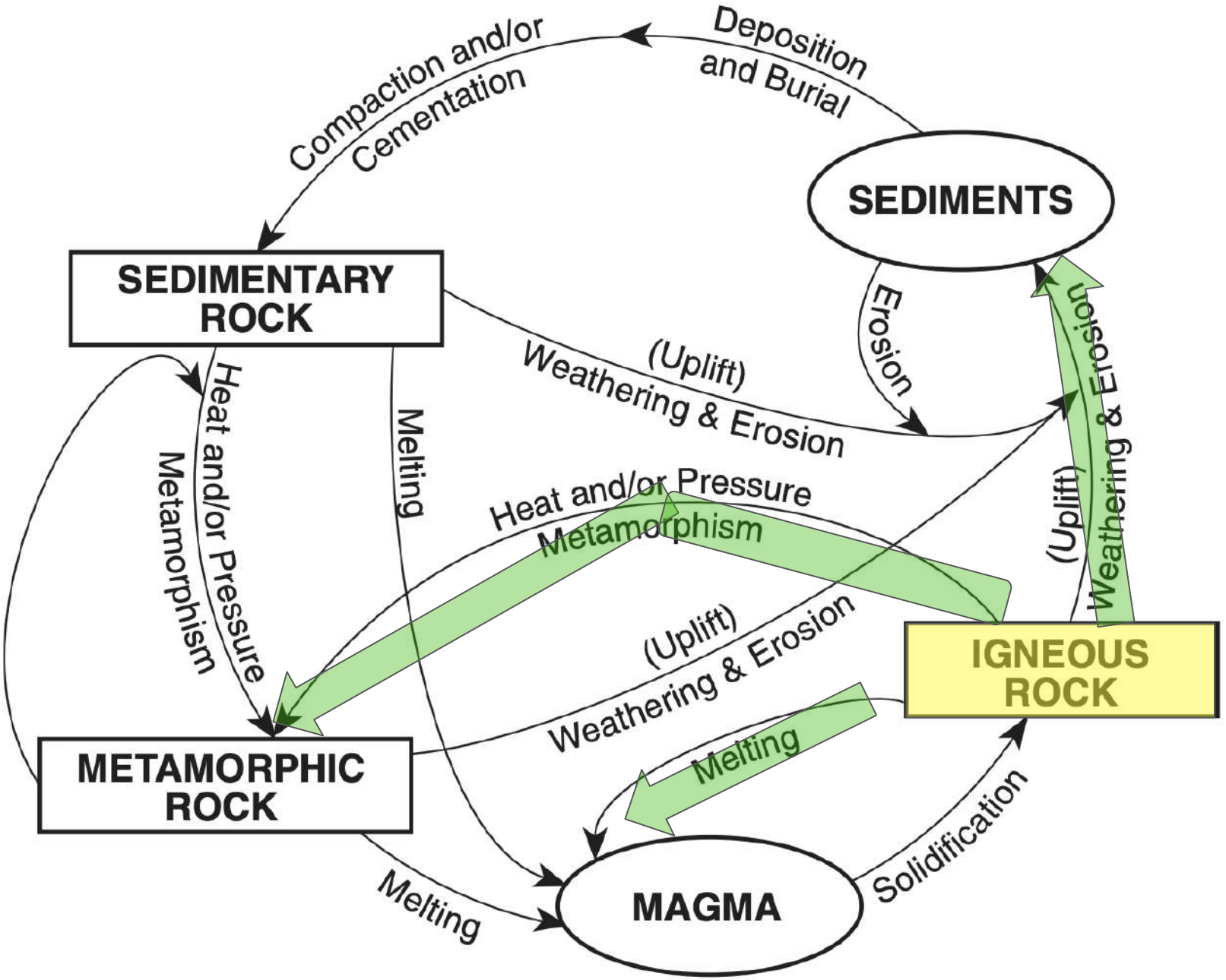
Rock Cycle in Earth's Crust



Melting

You melted back into magma :(

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Heat and Pressure

Metamorphism

You were exposed to high heat and pressure and now you're a metamorphic rock!

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You got worn down by water and wind. Instead of being a whole rock, you are now a bunch of tiny sediments.

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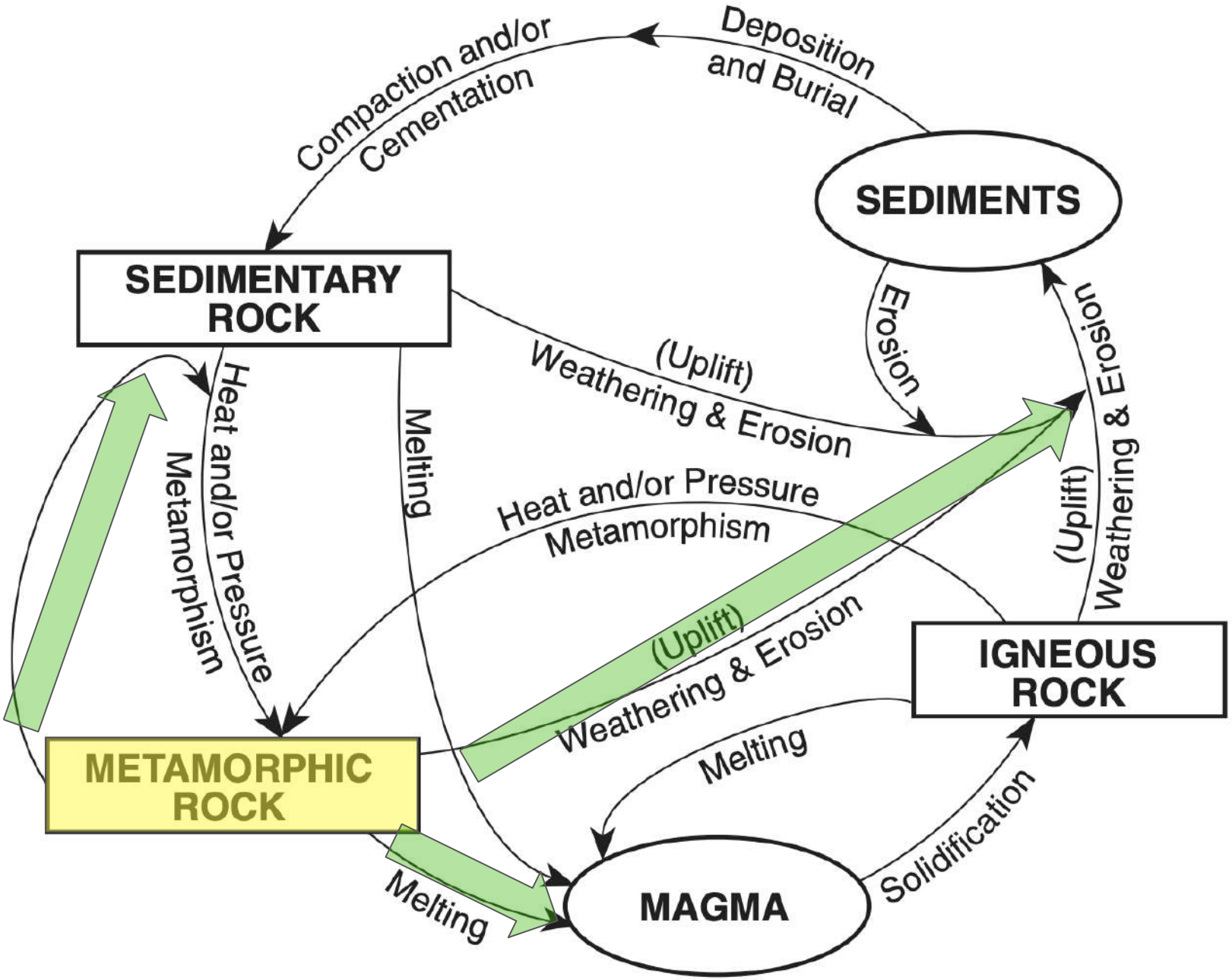
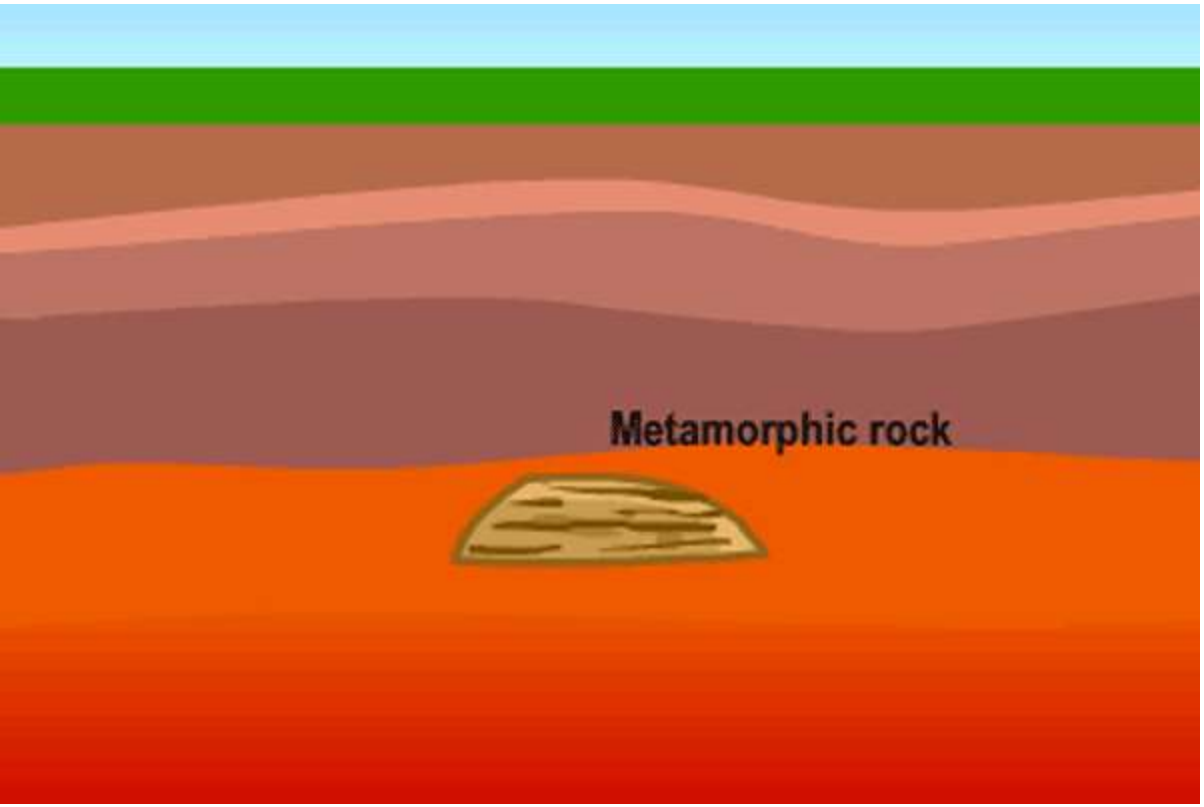
Rock Cycle in Earth's Crust



Metamorphism

You were exposed to EVEN MORE heat and pressure! Now you are another kind of metamorphic rock, but still a metamorphic rock.



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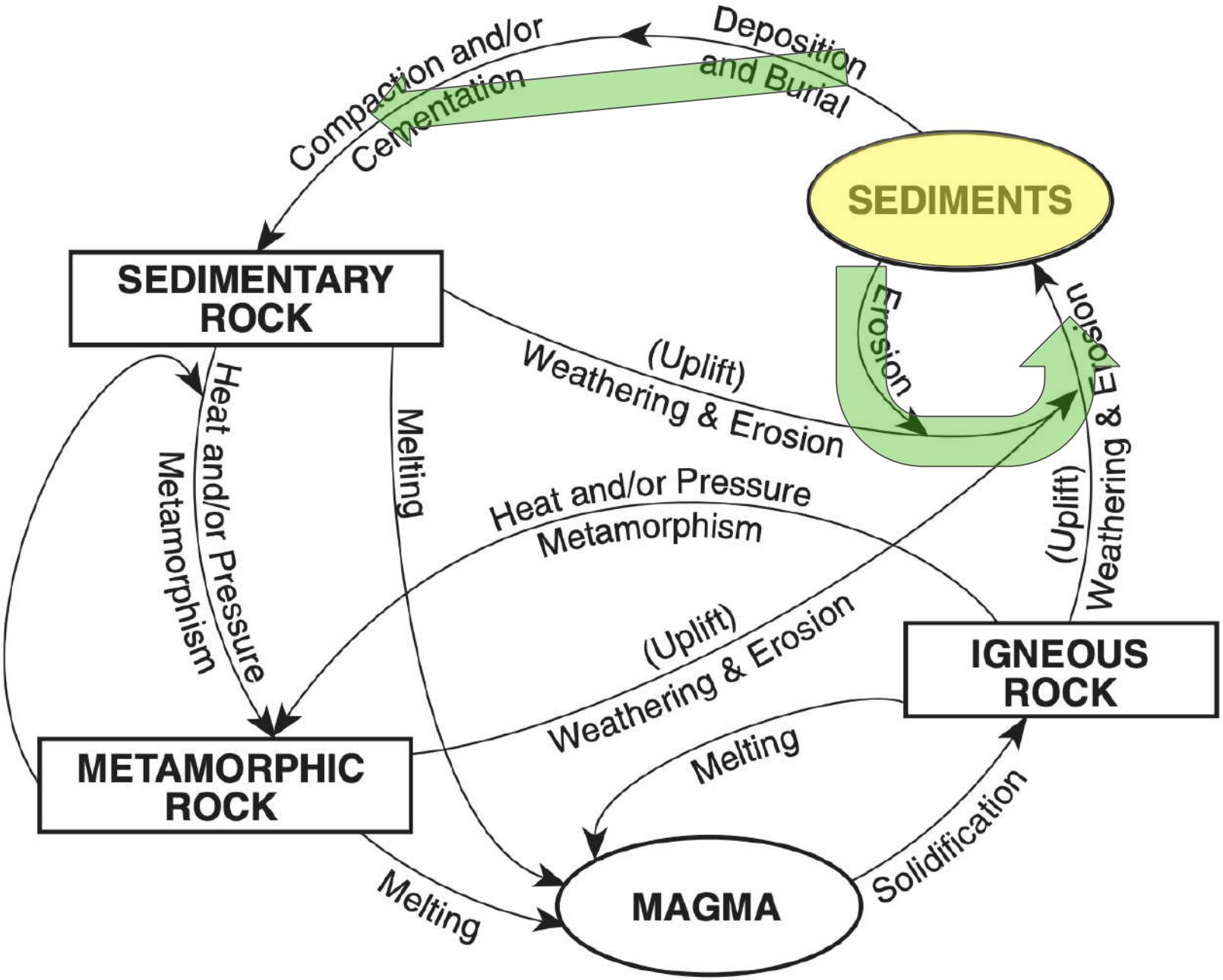
Rock Cycle in Earth's Crust



You're getting weathered away and eroded some more! You're still some sediments.

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Your little pieces of sediment were dropped and then got compacted/cemented together to form a sedimentary rock!

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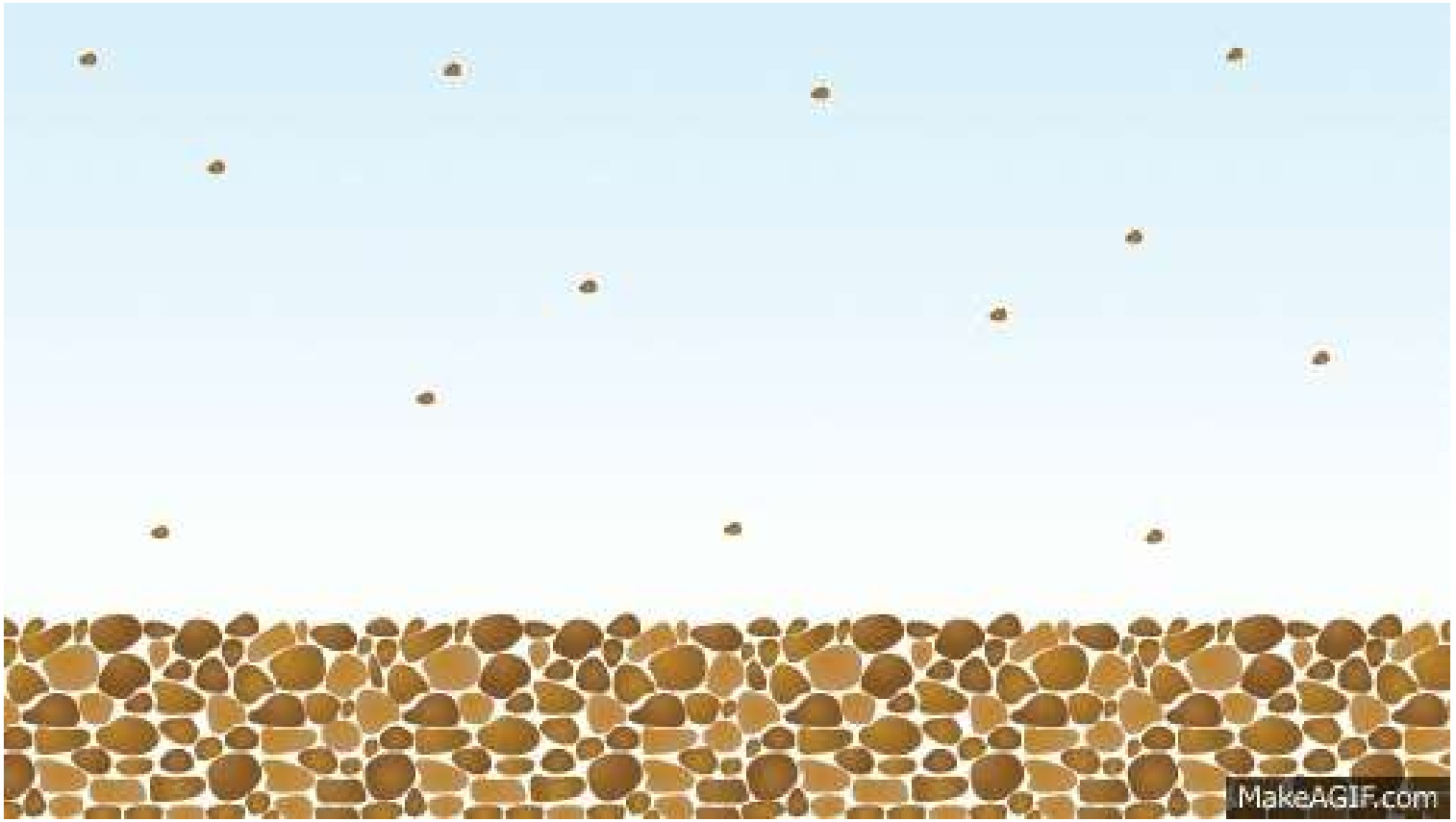
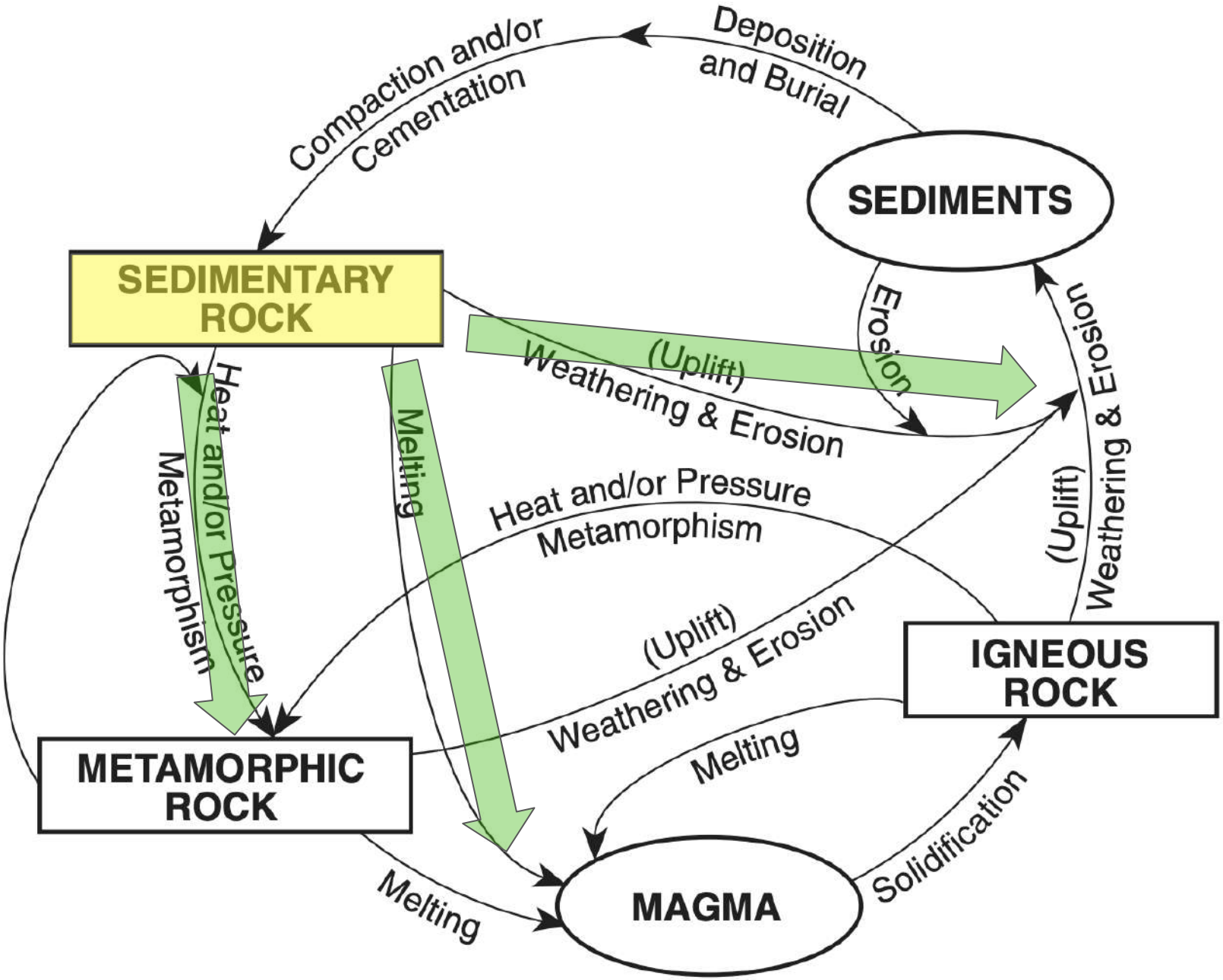
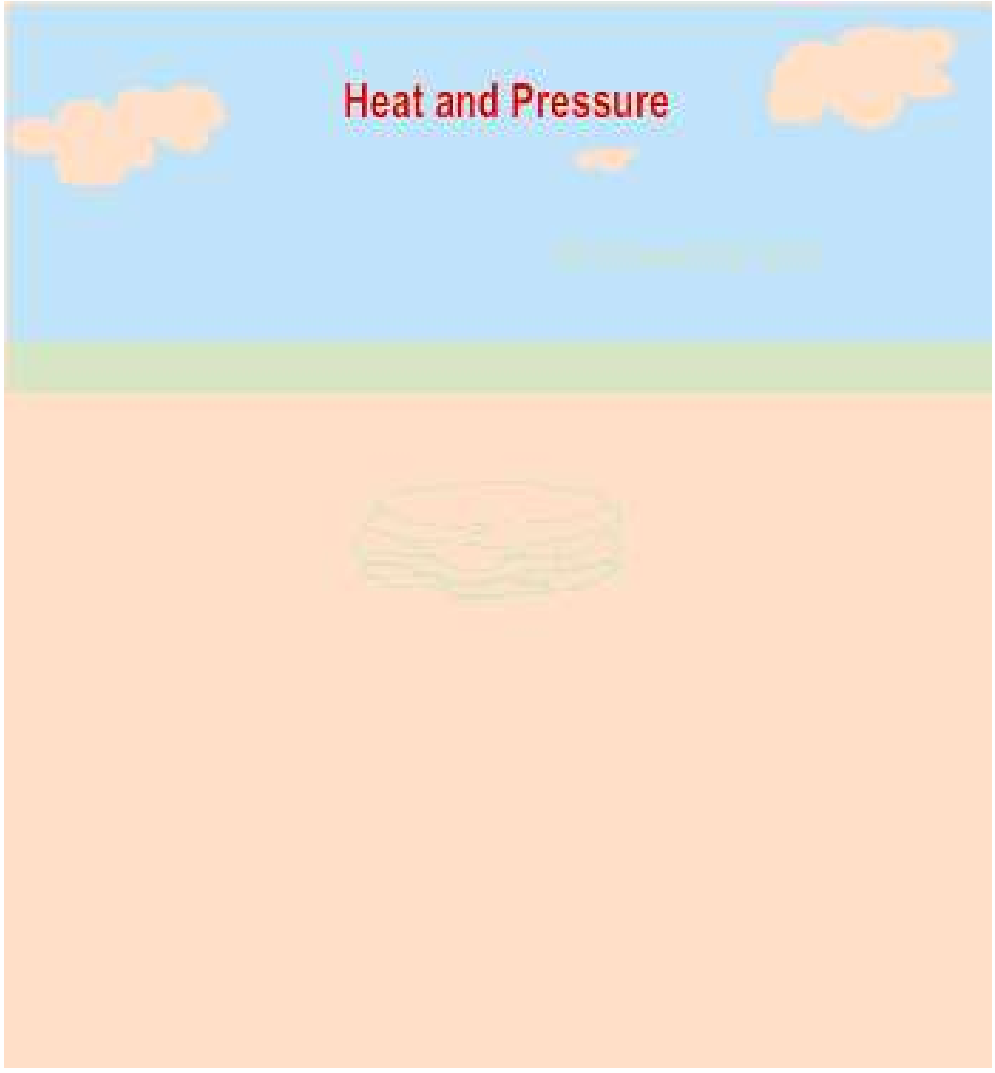


Rock Cycle in Earth's Crust



You're exposed to a lot of heat and pressure - you're a metamorphic rock!



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