

The Rock Cycle

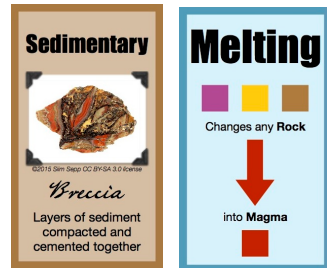
Rock Cycle Game

Purpose

This simple game takes the tedium out of learning the rock cycle.

The Cards

Each card represents a *material* or a *process* in the rock cycle.



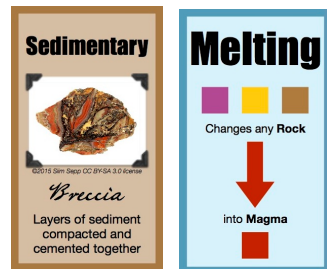
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The Cards

Each card represents a *material* or a *process* in the rock cycle.



Starting the Game

Shuffle the deck. Deal each player seven cards. Place the remaining cards in a pile between the players and turn over the top card.

This card represents the current stage in the rock cycle. All cards will be played on top of this one.

Play commences with the player to the dealer's left.

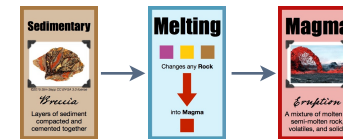
Player Turn

The player may play one eligible card from their hand onto the current stage. If they cannot play a card they must draw one. If the deck is empty they pass.

After they either play or draw a card it is the next player's turn.

Material cards are played on top of other cards of the same type. For example, sedimentary rocks are played on top of other sedimentary rocks.

Process cards change the stage of the rock cycle, as indicated on the card. For example, a melting card can be played on top of any rock card, and is treated like magma for subsequent cards.



Winning the Game

The first player to play all their cards wins the game.

If every player passes in turn the game is a draw.

More Games

For more science games and resources, visit:

<http://science.robertprior.ca>

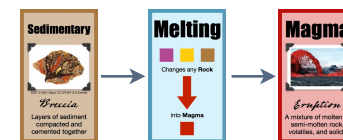


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Melting



Changes any **Rock**



into **Magma**



Cementing



Changes **Sediments**



into **Sedimentary Rock**



Cooling and Crystalizing



Changes **Magma**



into **Igneous Rock**



Heat and Pressure



Changes any **Rock**



into **Metamorphic Rock**



Weathering and Erosion



Changes any **Rock**



into **Sediments**



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Changes any **Rock**



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Changes any **Rock**



into **Sediments**



Sediments



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Clay

Remains of rocks
broken apart by
weathering or erosion

Sediments



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Silt

Remains of rocks
broken apart by
weathering or erosion

Sediments

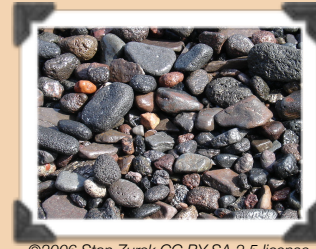


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Sand

Remains of rocks
broken apart by
weathering or erosion

Sediments



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Gravel

Remains of rocks
broken apart by
weathering or erosion

Sediments



Cobble

Remains of rocks
broken apart by
weathering or erosion

Sediments



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Clay

Remains of rocks
broken apart by
weathering or erosion

Sediments



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Silt

Remains of rocks
broken apart by
weathering or erosion

Sediments

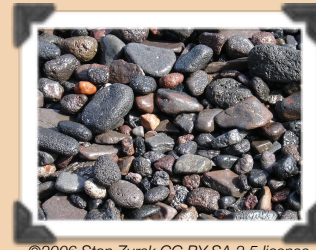


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Sand

Remains of rocks
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weathering or erosion

Sediments



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Gravel

Remains of rocks
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weathering or erosion

Sediments



Cobble

Remains of rocks
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weathering or erosion

Magma



Flow Lava

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



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A mixture of molten or semi-molten rock, volatiles, and solids

Magma



Flow Lava

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



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Lava Lake

A mixture of molten or semi-molten rock, volatiles, and solids

Magma

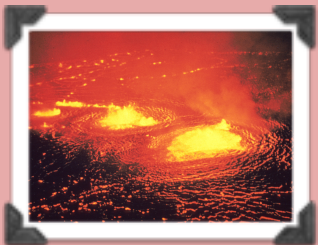


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Lava Lake

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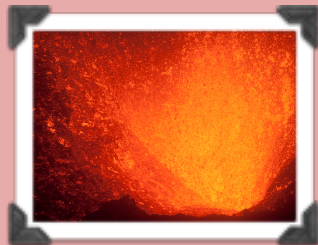
Magma



Lava Lake

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



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Magma Pool

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



Eruption

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



Lava

A mixture of molten or semi-molten rock, volatiles, and solids

Magma



Lava Cascade

A mixture of molten or semi-molten rock, volatiles, and solids

Sedimentary



Chert

Layers of sediment
compacted and
cemented together

Sedimentary



Hematite

Layers of sediment
compacted and
cemented together

Sedimentary



Caliche

Layers of sediment
compacted and
cemented together

Sedimentary



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Shale

Layers of sediment
compacted and
cemented together

Sedimentary

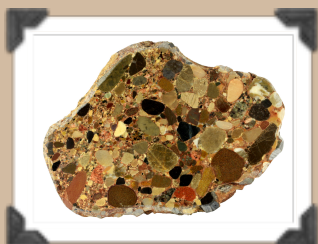


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Flint

Layers of sediment
compacted and
cemented together

Sedimentary



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Conglomerate

Layers of sediment
compacted and
cemented together

Sedimentary

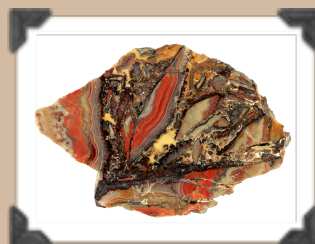


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Limestone

Layers of sediment
compacted and
cemented together

Sedimentary



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Breccia

Layers of sediment
compacted and
cemented together

Sedimentary



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Sandstone

Layers of sediment
compacted and
cemented together

Sedimentary



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Siltstone

Layers of sediment
compacted and
cemented together

Igneous



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Obsidian

Magma or lava that
has cooled and
crystallized

Igneous



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Diorite

Magma or lava that
has cooled and
crystallized

Igneous

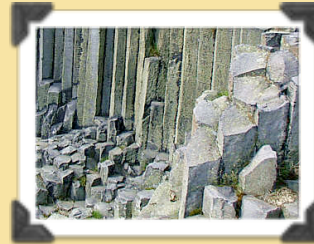


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Gabbro

Magma or lava that
has cooled and
crystallized

Igneous



Basalt

Magma or lava that
has cooled and
crystallized

Igneous



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Granite

Magma or lava that
has cooled and
crystallized

Igneous

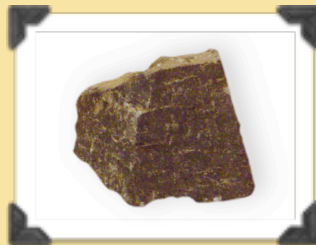


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Pumice

Magma or lava that
has cooled and
crystallized

Igneous



Andesite

Magma or lava that
has cooled and
crystallized

Igneous



Rhyolite

Magma or lava that
has cooled and
crystallized

Igneous



Pegmatite

Magma or lava that
has cooled and
crystallized

Igneous



Tuff

Magma or lava that
has cooled and
crystallized

Metamorphic



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Slate

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



Schist

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic

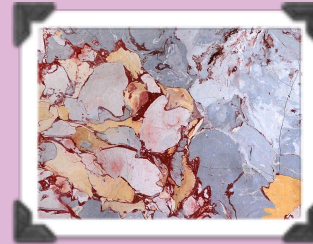


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Greenschist

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Marble

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Gneiss

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Hornfels

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Phyllite

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Quartzite

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



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Lapis Lazuli

Sedimentary or
igneous rocks changed
by heat and pressure

Metamorphic



Soapstone

Sedimentary or
igneous rocks changed
by heat and pressure

