

Can a Rock Grow?

Colored by _____

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AGATE
GARNET

GEODE
JASPER

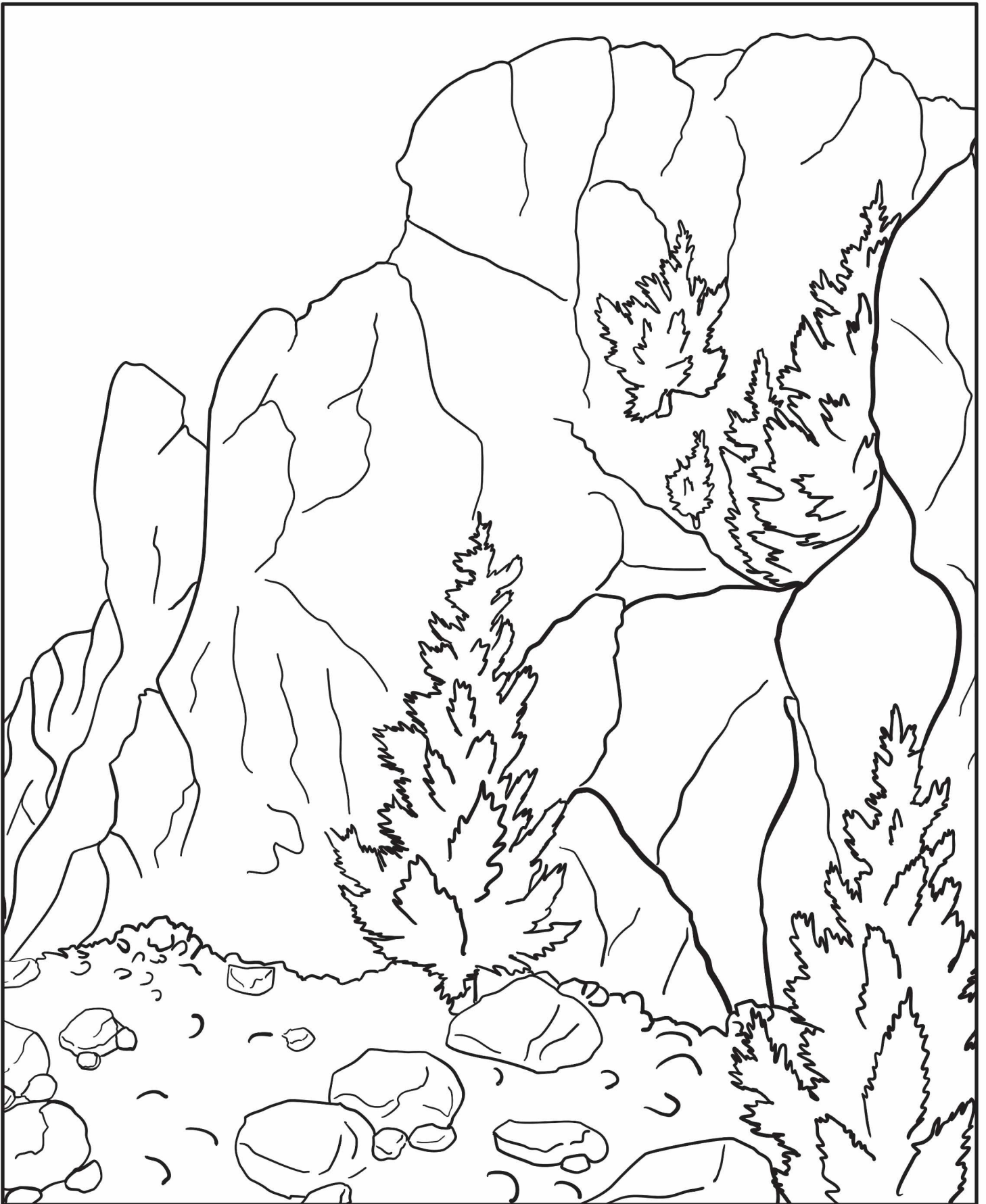
JADE
MICA

MOONSTONE
OPAL

PYRITE
QUARTZ



What are some common minerals, crystals, and precious stones? Look across or down to find the names for these rocks.



In pools underground, it's called magma. When the volcano erupts, it's lava!

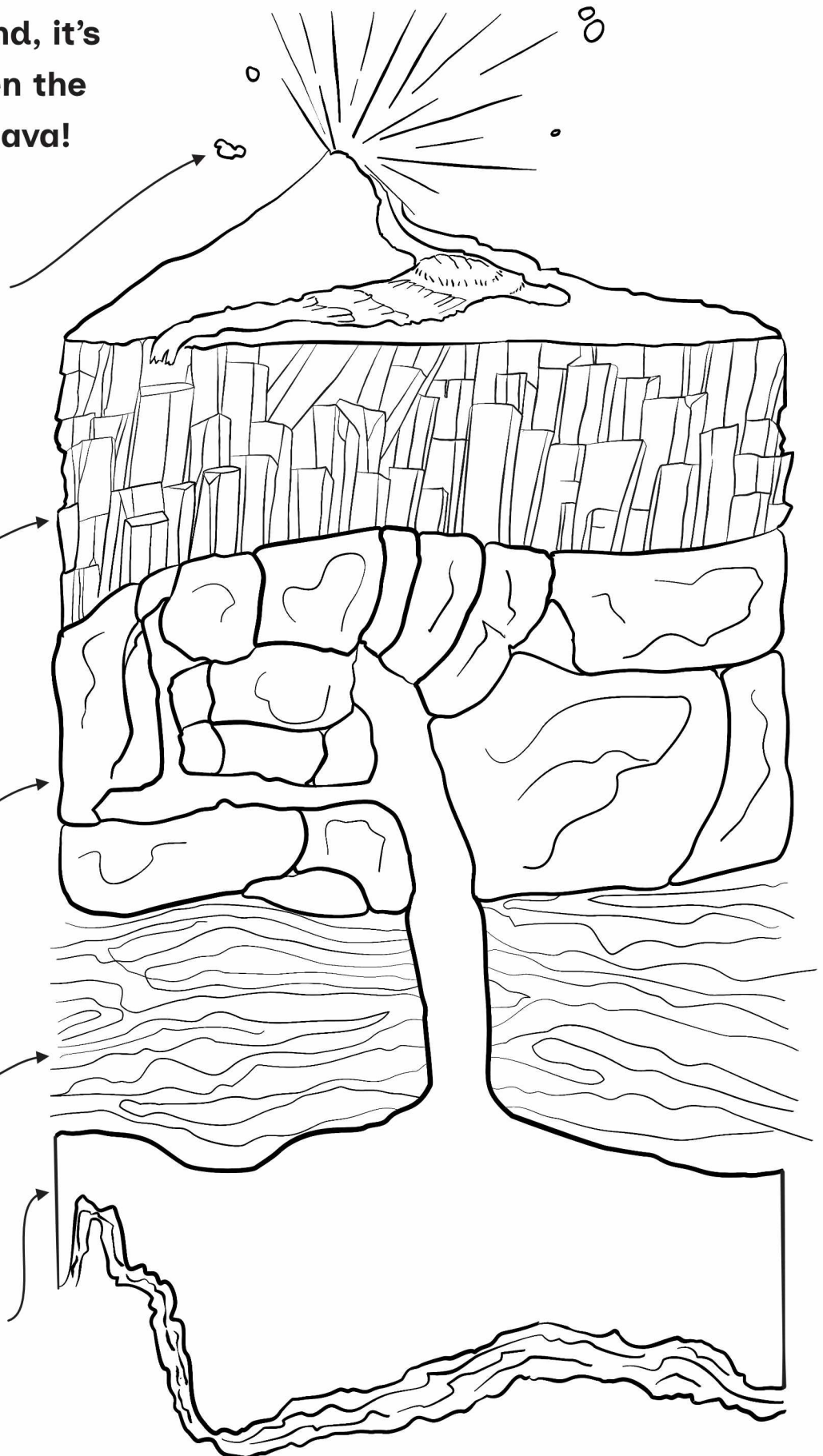
When lava is full of gas, it may explode at the surface and form bubbly pumice.

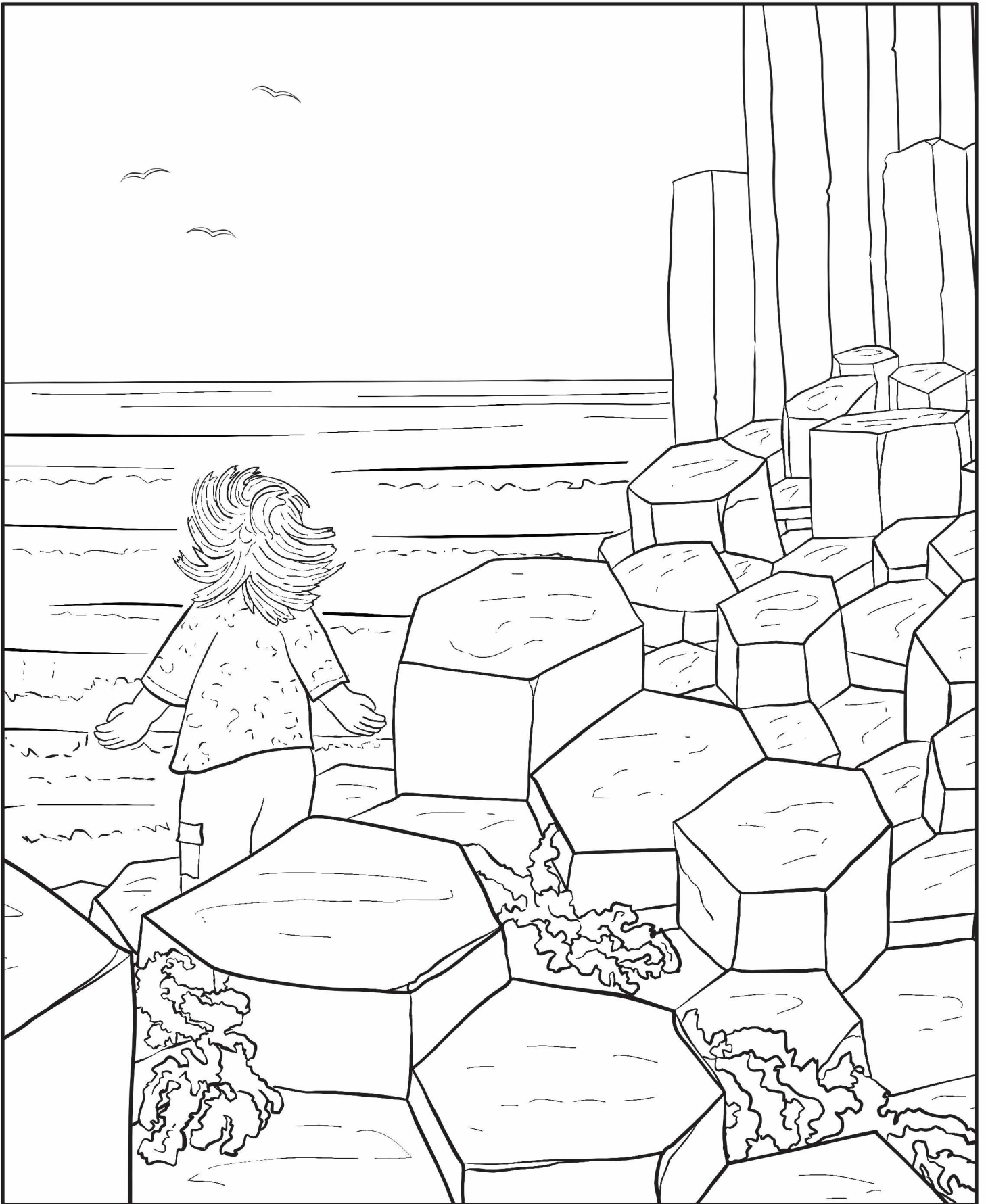
Near the surface, magma cools quickly. Crystals might not have time to grow, or might harden while they are still tiny.

Further down, magma cools slowly, allowing larger crystals to grow. These rocks may look speckled or spotty.

Deep underground, the heat and pressure can change old rocks into new, harder forms.

Giant pools of magma hide far below the surface. If pressure rises, the magma may push its way to the surface and erupt.

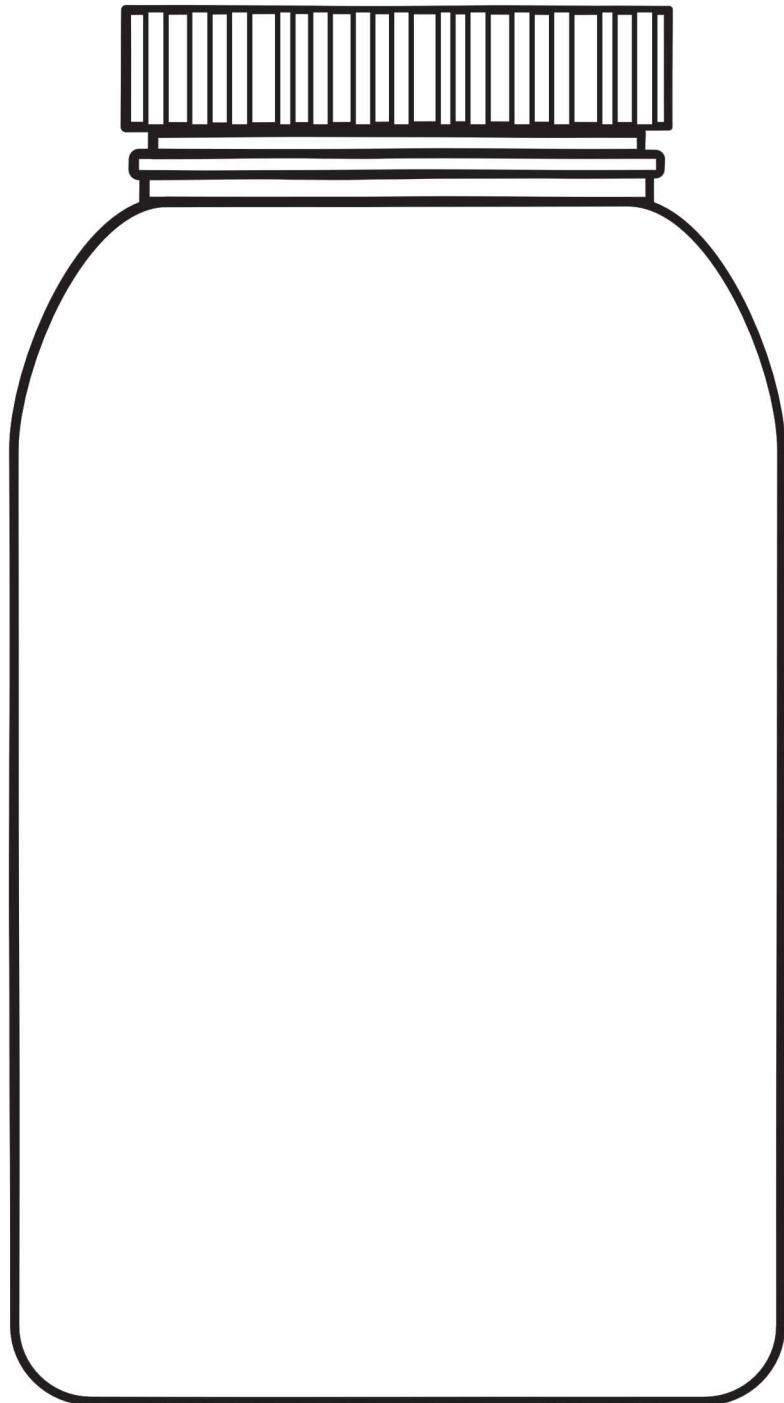




Shake It Out

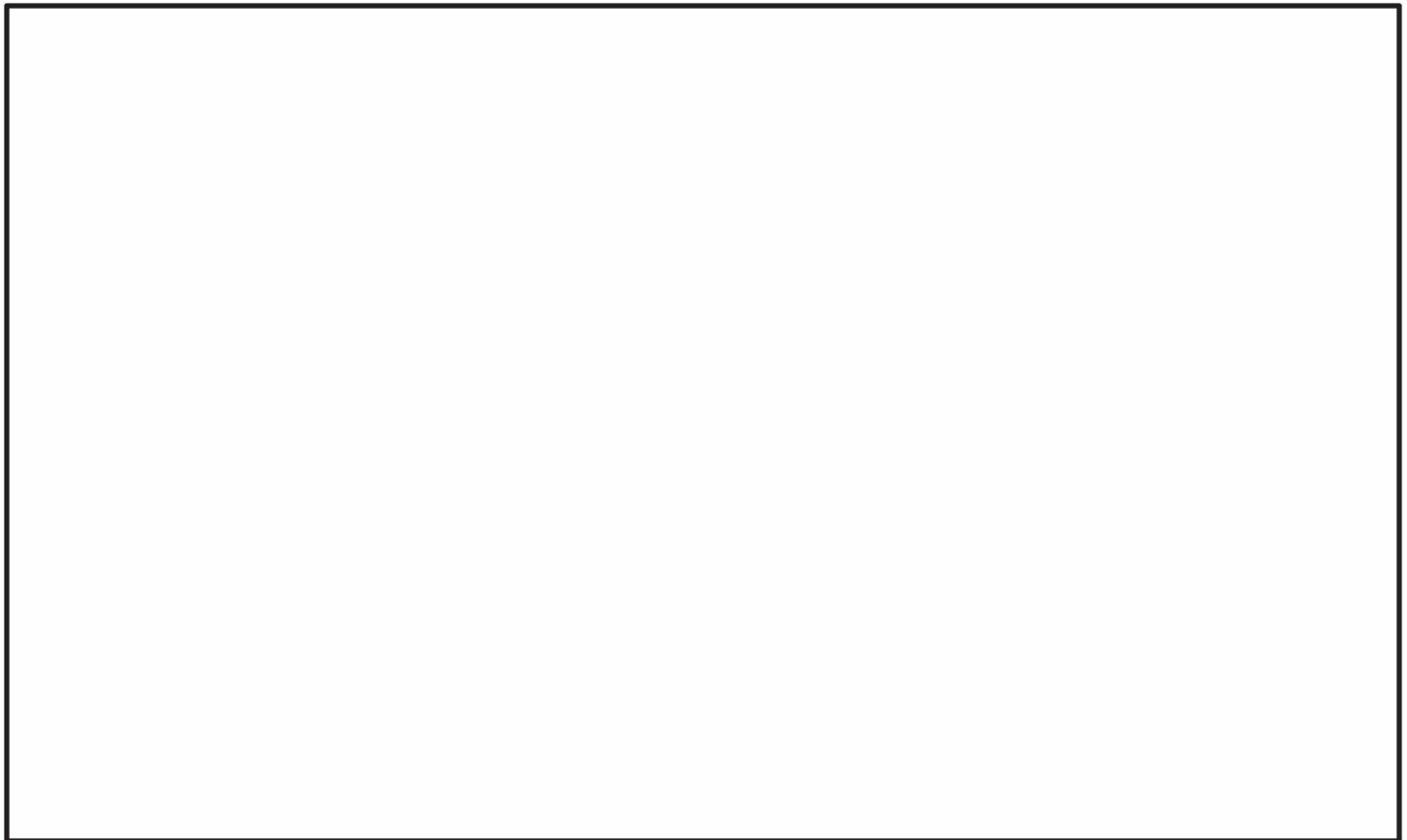
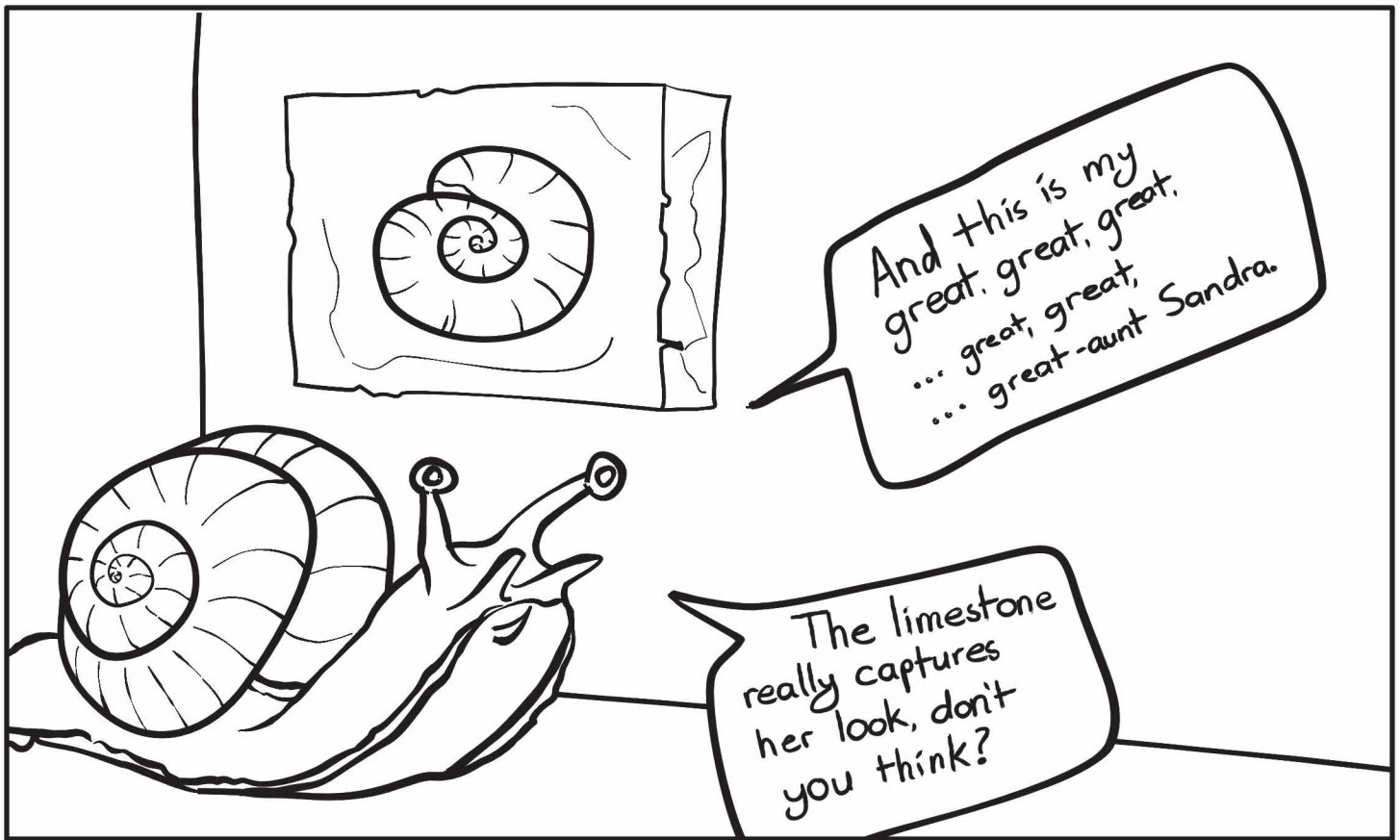
It can take years for sedimentary rocks to harden into layers. You can create your own layers in a couple hours, though! Fill a jar half-full of water. Add a scoop of dirt. Shake it, then watch the layers form.

Once the dirt has settled, draw the layers here!

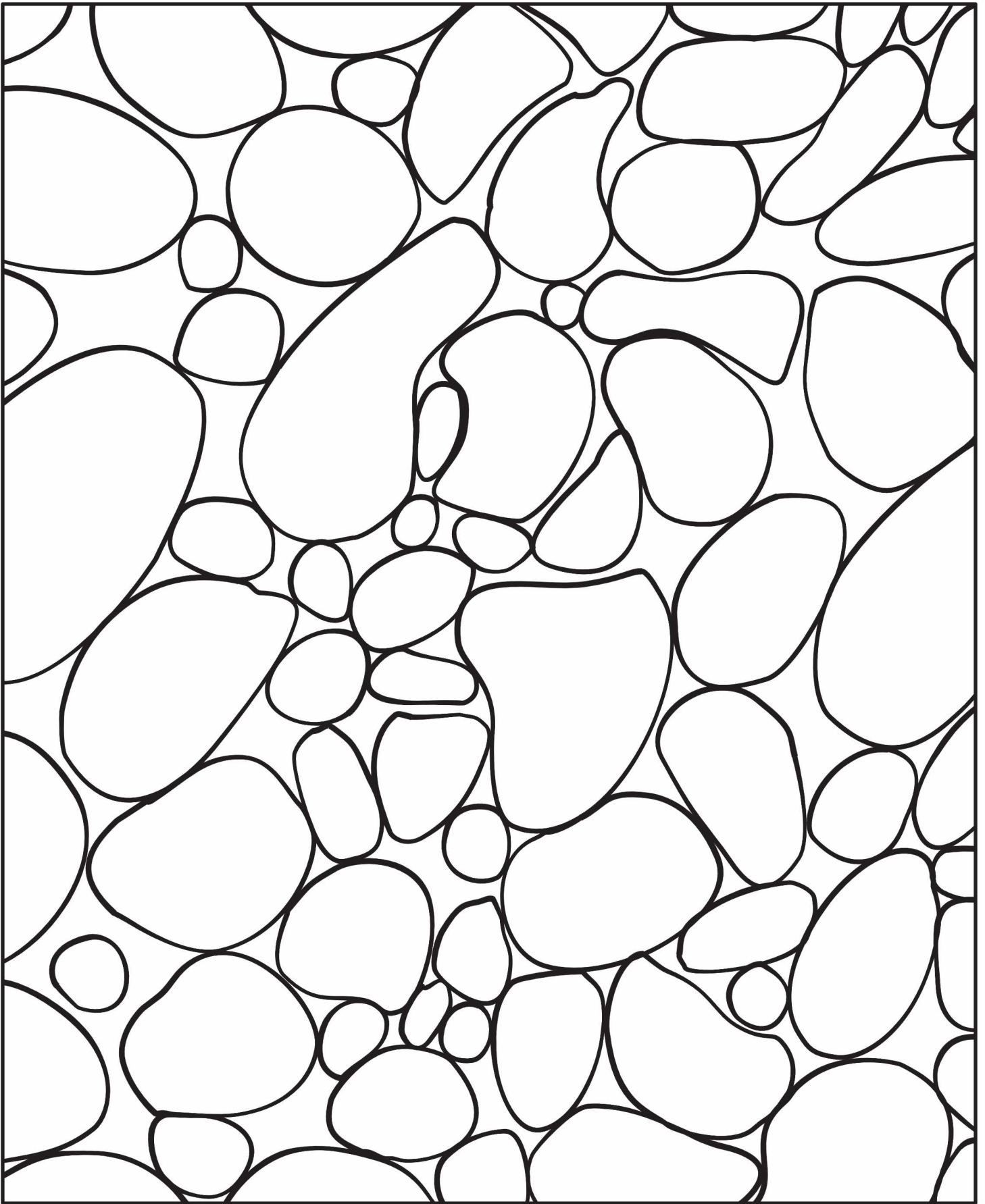


Flat-shelled limpets often return to the same spot to rest, slowly wearing a shallow hole in the rock. Help this limpet find its way home through the algae!





What did the snail say about this fossil? Use the empty box to create your own comic or to draw a story about a rock.



Follow the rainbow! Next time you explore a rocky beach, see how many colors of rocks you can find. Can you make a rainbow with these rocks?

B I N G O				
A needle-like rock	A botryoidal (bubble) rock	A columnar rock	A fuzzy rock	A rosette
A mossy agate	A giant geode	Limestone	An insect fossil	An emerald, sapphire, or diamond
A fluorescent rock	A star-like rock	Free Space	A striated (or ridged) rock	Petrified wood
A large quartz crystal	Pyrite	A fossilized sea creature	A metallic mineral	A dendritic (branching) rock
A meteor or moon rock	A trace fossil (such as a footprint)	A large crystal cluster	A cubic (box) rock	A hairlike rock

Rock Journal

Date:

Place:

I notice:

I wonder:

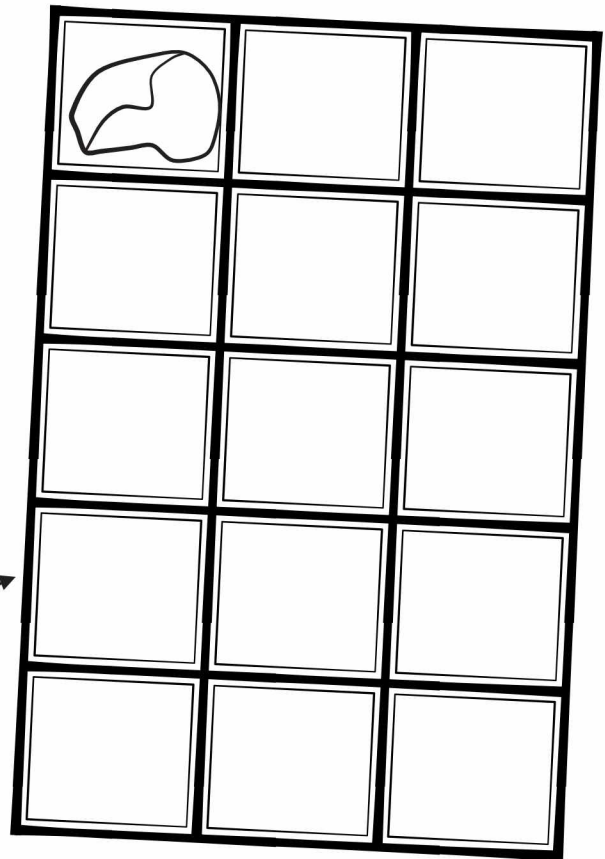
It reminds me of:

Build a Rockhound Kit

If you want to learn more about them, why not become a rock hound (or a geologist)? You can start your kit with these tools:

- Safety goggles
- Hand shovel
- A cleaning brush
- A kitchen scale
- A notebook to record your work
- A magnifying glass or loupe
- A box or tray to hold your rocks
- A penny and a steel nail for scratch tests

You may want to find a box with dividers for your rock collection. Make sure you label your rocks!



Interested in learning more about rocks? Check out these resources:

Geology Lab for Kids, by Garret Romaine.

The Usborne Spotter's Guide to Rocks and Minerals, by Alan Woolley.

Rocks, Fossils & Arrowheads (A Take Along Guide), by Laura Evert.

Rock Collecting for Kids: An Introduction to Geology, by Dan R. Lynch.

Rocks and Minerals (First Field Guide), by Edward R. Ricciuti.