Tonto Natural Bridge State Park

P.O. Box 1245
Payson, AZ 85547
(928) 476-4202

Arizona State Parks
JUNIOR RANGER

Become a **Junior Ranger** at **Tonto Natural Bridge State Park**! Pledge to do your part to help preserve the beauty of the park for everyone to enjoy! Get your Junior Ranger booklet at the park, complete it, and bring it to a Park Ranger for review. Then receive your **Junior Ranger Button**! Enjoy this sample activity. We hope to see you at the park.

Tonto Rock 'N Rock

Junior Ranger Activity: Here at Tonto we have both **igneous** and **sedimentary** rocks. To decode the names of these rocks below, simply move each letter forward one space in the alphabet. For example, A = B, B = C,   Z = A. So, **QNBJ** equals **ROCK**! Keep your eyes open during your visit and see if you notice any of these rocks in the park.

1. **QGXNKHSD** = _____
a red, course-grained volcanic rock that can be found beneath the natural bridge.

2. **AZRZKS** = _____
a dark gray or blackish volcanic rock that forms a cap on top of both sides of the canyon.

3. **RZMCRSNMD** = _____
a purple sedimentary rock that formed from the **erosion** of rhyolite along the west side of the canyon.

4. **KHLDRSNMD** = _____
a white or light gray, chalky sedimentary rock found along the east side of the canyon.

5. **SQZUDQSHMD** = _____
a light brown, rough sedimentary rock formed by the **deposition** of dissolved limestone. Tonto Natural Bridge is made of this rock.

Glossary

igneous - volcanic rocks formed from the solidification of magma.

metamorphic - rocks that have been changed by great heat and pressure.

sedimentary - rocks formed from the cementation of sediments.

solidification - to become solid

magma - liquid rock

cementation - getting stuck together

sediments - loose pieces of mud or sand

erosion - the wearing away and movement of rock material

deposition - to lay down layers of sediment

Use the following "key" to fill in the map below with the different types of rock. Make sure to check the descriptions above for the location of each rock type so you can put them in the correct place.

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