



Blast!



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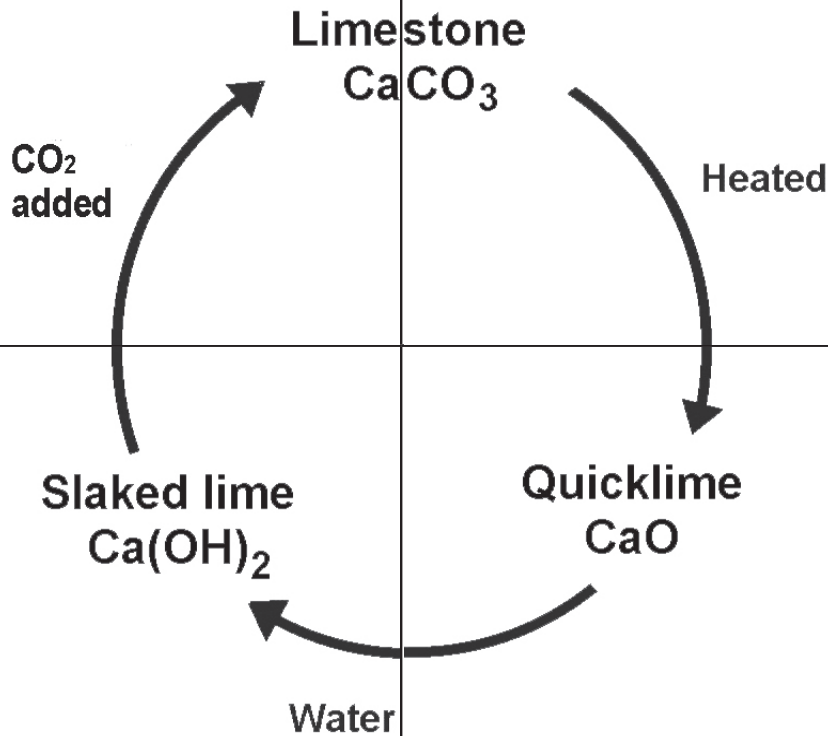
SINKHOLE!



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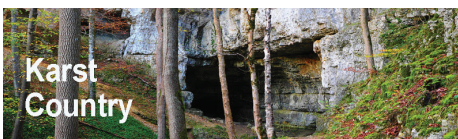
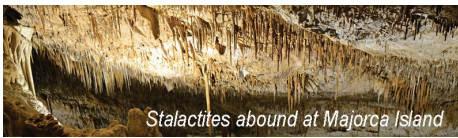
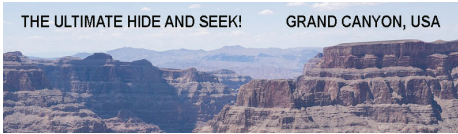
SINKHOLE!



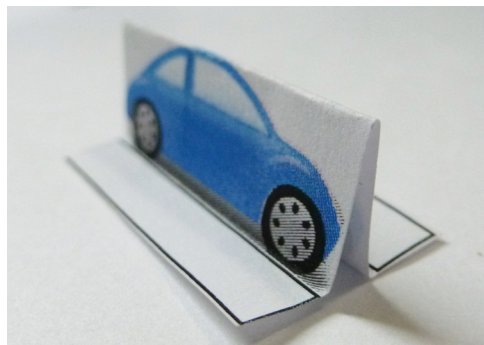
A road crew just went out to fix a sinkhole. If you have any sinkholes on your roads, you may remove one of them.

<p>Anyone who can answer this question correctly can move on this turn.</p> <p>Which one of these is NOT a type of limestone? 1) shale 2) chalk 3) travertine 4) dolomite</p> <p>Show your answer by putting up fingers. (Answer: 1)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>Which one of these is classified as an impurity in limestone? 1) calcium 2) iron 3) oxygen 4) carbon</p> <p>Show your answer by putting up fingers. (Answer: 2)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>Which one of these sea creatures would not contribute to the formation of limestone? 1) clam 2) oyster 3) jellyfish 4) snail</p> <p>Show your answer by putting up fingers. (Answer: 3)</p>
<p>Anyone who can answer this question correctly can move on this turn.</p> <p>What do you need to convert CaCO_3 (calcium carbonate) to CaO (calcium oxide)? 1) water 2) chemicals 3) CO_2 4) heat</p> <p>Show your answer by putting up fingers. (Answer: 4)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>How many bonds does an oxygen atom want to make? 1) 1 2) 2 3) 3 4) 4</p> <p>Show your answer by putting up fingers. (Answer: 2)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>How many bonds does a calcium atom want to make? 1) 1 2) 2 3) 3 4) 4</p> <p>Show your answer by putting up fingers. (Answer: 2)</p>
<p>Anyone who can answer this question correctly can move on this turn.</p> <p>Where might you find slaked lime? 1) food 2) sewage treatment 3) sports field 4) all of these</p> <p>Show your answer by putting up fingers. (Answer: 4)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>What is karst? 1) a landscape 2) a sinkhole 3) a mineral 4) a cave</p> <p>Show your answer by putting up fingers. (Answer: 1)</p>	<p>Anyone who can answer this question correctly can move on this turn.</p> <p>When a solid comes out of a solution, we say it: 1) evaporated 2) consolidated 3) predipitated</p> <p>Show your answer by putting up fingers. (Answer: 3)</p>
<p>This question is for the person to your left. If correct, he or she may move on this turn.</p> <p>Which of these elements may have speeded up the formation of many caves? 1) carbon 2) sulfur 3) silicon 4) magnesium (Answer: 2)</p>	<p>This question is for the person to your right. If correct, he or she may move on this turn.</p> <p>True or false? You can predict when and where a sinkhole will appear. False. Even if you know an area might have sinkholes, you can never predict when and where.</p>	<p>This question is for the person to your left. If correct, he or she may move on this turn.</p> <p>True or false? It is okay to break off a small piece of stalactite in a cave and keep it as a souvenir. False. If everyone did this, there would be nothing left. Take nothing but pictures and memories.</p>

<p>Anyone who can answer this question can move on this turn.</p> <p>The Grand Canyon has layers of sandstone, limestone and shale. Sandstone and shale have an element that limestone does not. Is it: 1) sulfur 2) carbon 3) magnesium 4) silicon</p> <p>Show your answer by putting up fingers. (Answer: 4)</p>	<p>This question is for the person to your right. If correct, he or she may move on this turn.</p> <p>In dolomite, about half the calcium atoms have been replaced with: 1) silicon 2) carbon 3) magnesium 4) iron</p> <p>(Answer: 3)</p>	<p>Anyone who has visited a cave may move on this turn, IF they can remember the name of the cave. If the cave did not have a name, tell where it was and who you went with.</p>
<p>A road crew just went out to fix a sinkhole. If you have any sinkholes on your roads, you may remove one of them.</p>	<p>Instead of rolling the dice on this turn, switch places with another car.</p>	<p>Instead of rolling the dice on this turn, switch places with another car.</p>
<p>You stopped to take pictures at a scenic overlook. The pictures are wonderful but it slowed you down a bit. Roll only 1 of the dice.</p>	<p>You car looks like it might overheat. Better go slow for a while!</p> <p>Roll only 1 of the dice on this turn.</p>	<p>You had to stop for a family of ducks that was crossing the road. This slowed you down.</p> <p>Roll only 1 of the dice on this turn.</p>
<p>The weather is perfect for traveling and you are making good time. Roll the dice as usual and move your car along.</p>	<p>That skunk on the side of the road sure smelled terrible but it didn't slow you down. Proceed normally, rolling both dice.</p>	<p>It is pouring down rain and you must reduce your speed.</p> <p>Roll only 1 of the dice.</p>



Cut out these miniature bumper stickers and put them on the canyon/cave photos.



These sinkholes are the ones that actually get put onto the road. (The SINKHOLE cards are too large to fit onto the road sections.)

Cut out a car for each player and fold as shown. You can glue the two sides together, or just leave them folded. Either way is fine.

