



Wupatki Outing with Ms. Mansfield and Ms. Kaupisch's 4th Grade Classes by Sabrina Carlson

On April 8th, 2016 I had the privilege of presenting to the 48 students of Ms. Mansfield and Ms. Kaupisch's classes at DeMiguel Elementary School on Leave No

Trace Ethics, outing expectations, and the Hug-A-Tree curriculum. We had a discussion about what trash really is (yes, your apple core is trash), and what a special treasure places like Wupatki National Monument is for our country. The students were empowered with the knowledge of what to do if they ever get lost in the woods, and they all agreed that staying in one place would be the best plan, even if it might feel scary at times. Many students had concerns and questions about how to know if someone looking for them was Search and Rescue or a stranger. It comforted them to know that Search and Rescue volunteers will always have a radio and identification. When our presentation was finished, each of the students received a basic survival kit to always keep with them when adventuring in the outdoors. The kit contained a poncho, emergency blanket, glow sticks, signal mirror, and whistle. While I hope none of those young people ever need it, I'm thrilled to know that these students now have the knowledge to keep themselves safe if they are ever separated from their families while outdoors.



Noticing the evidence of fundamental human needs

On May 3, we took our newly found outdoor confidence to Wupatki National Monument to learn about the history and culture of the ancient people who once lived there.

Before the students arrived, one of Wupatki's volunteer docents asked if I knew about the secret of the community room. I did not! He let me in on the nifty secret that the acoustics of the room were designed so that the speaker could be heard by listeners in all parts of the room, even at a whisper. Wow! Another example of the ancient people's contributions to engineering and technology! I was excited to add this to our tour.

When the class arrived at Wupatki we divided everyone into two groups to start the activities. We discussed the concept of "fundamental human needs," which is the common ground that all cultures throughout history have shared. Material needs like food, shelter, and defense; and non-material needs like love, art, beauty, and a belief system were all examples of this idea. As the students toured the ruins, we looked for evidence of human survival and to see if we could recognize these needs. We wondered if the one petroglyph of a snake was communication, art, or part of their belief system. We took note of the *metates* used for grinding corn and other plants. We learned the pueblo had no doors on the first two stories in order to make the houses safe and better for defense. Figuring

out a way to direct fire smoke out of the lower rooms sideways made us realize they had seriously advanced engineering skills! We walked in to the community room to try the whisper trick and it really worked! We were all amazed at this interesting feature.

Richard May then led the activity at the ball court. He taught the students about the importance of ball courts throughout villages all over the southwest and what a huge distance there is between Wupatki (the northernmost example of these ceremonial courts) and Chichen Itza (the southernmost). The students were amazed to learn that the quetzal feathers and seashells found at Wupatki were evidence that trade took place between the two separate groups. He also explained how even today, playing games with people from other cultures helps break language barriers and has the ability to create friends anywhere you go. After the short lesson, the students had the chance to play a ball and stick game similar to what children at Wupatki might have played 900 years ago.



Walking back in time

Before leaving, we made a quick stop at the blowhole. A fascinating geological feature in which an opening to an underground cave will either suck air in or blow air out, depending on the temperature differential between the cave and the outdoor air. Archeologists think this opening might have had supernatural and religious significance to the residents of this home site.



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