

# Carlsbad Caverns Activity Sheet

Activities for Science Centers, Grade 2 Oregon Caves National Monument Exploring Caves Forces of Nature Inquiry Card--Mammoth Cave Microbial Roles in Caves Cody Resource Area Resource(s) Management Plan (RMP) Exploring the Cave World Dynamic Tectonics and Karst Circle Time Activities A Field Guide to the Illinois Caverns State Natural Area The Reading Clinic The Best of WonderScience The Transactions of the Cave Research Group Physics by Design Annual Report of the Board of Regents of the Smithsonian Institution Survey Notes Transactions of the British Cave Research Association Report of the United States National Museum .. Limestones and Caves of the Peak District Exploring Alabama Caves Pearce United States. National Park Service Valme Jurado Stefan Shanov Grace Jasmine American Chemical Society Barbara Bratzel Smithsonian Institution British Cave Research Association United States National Museum Trevor D. Ford Thomas W. Daniel

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daily discoveries with science centers activities for the science center helps students in grade 2 explore concepts in life science earth science and physical science through hands on experiments it also explains the scientific principles behind each experiment this 80 page book aligns with common core state standards as well as state and national standards and includes tips for setting up science centers and introducing new concepts extension activities and literature lists

elaborate on the concept of forces in nature using this science inquiry card and lesson using vibrant engaging images for science exploration allows all students to make connections and relate science concepts to new situations

caves are dark underground hollow spaces with relatively constant temperature high humidity and limited nutrients many caves are associated with karst topography which is formed by the dissolution of soluble bedrock such as limestone dolomite and gypsum in areas where groundwaters are undersaturated with respect to the minerals in the host rock karst landforms spread widely accounting for approximately 20 of the earth s dry ice free surface ford and williams 2007 as a typical feature of subsurface landscape karst caves develop globally with over 50 000 distributed in the united states barton and jurado 2007 china also has a large contiguous karst terrain and the yunnan guizhou plateau in the southwest developed most karst caves among which the longest cave exceeds 138 km zhang and zhu 2012 many caves are relatively shallow and form near the water table in karst terranes although some caves develop by deep seated hypogenic process at substantial depths and by process other than dissolution such as lava flows caves are oligotrophic ecosystems with less than 2 mg of total organic carbon per liter yet host flourishing microbial groups figure 1a with an average number of 106 microbial cells per gram of cave rock barton and jurado 2007 the study revealed a high diversity within bacteria domain and proteobacteria and

actinobacteria were abundant in oligotrophic cave samples of air rock sediment and water chloroflexi planctomycetes bacteroidetes firmicutes acidobacteria nitrospirae gemmatimonadetes and verrucomicrobia also accounted for large proportions of the total microbial community in caves wu et al 2015 zhu et al 2019 in some organic cave samples such as biofilms in sulfur cave bat guanos spiders webs and earthworm castings mycobacterium was prevalently detected modra et al 2017 sarbu et al 2018 hubelova et al 2021 pavlik et al 2021 over 500 genera of fungi such as penicillium aspergillus and mortierella have been reported in caves vanderwolf et al 2013 and new fungal species were identified from cave air rock sediment and water samples zhang et al 2017 2021 these microbial communities contain novel diversity and promote important biogeochemical processes with no sunlight microorganisms in cave environment cannot perform photosynthesis and are intensively involved in the biogeochemical cycles of carbon nitrogen sulfur and metals such as fe and mn to offset the lack of exogenous nutrients and energy

the karstic caves are favorable sites for tectonic events detecting representing a conservative medium of three dimensional framework where the tectonic deformations are well preserved they also provide an environment conducive to dating and determining the geometrical parameters of past seismotectonic events during the last three decades the study of dynamic tectonics and recent geodynamics in karst terrains has been subject of numerous publications but it has not been systematically approached in a comprehensive monograph this book collects the current state of knowledge on the relationship between karst and dynamic tectonics and presents a new methodology to its study it puts forward several approaches for studying of recent geodynamics in karst terrains such as tectonic stress fields reconstructions using structural analysis of the fracturing geophysical studies of the rock anisotropy and fault plane solutions from earthquakes analysis of the spatial orientation and absolute dating of deformed speleothems instrumental and mechanical measurements monitoring and modeling all supported with case studies from several karst areas worldwide e g in albania bulgaria cuba and france

circle time activities giving stories activities

the activities focus on the process of doing science and cover physical science earth and space science and life science children learn the importance of establishing an experimental control changing and controlling variables observing measuring recording data and drawing reasonable conclusions

teaching resources for a project based course that teaches classical mechanics through engineering motion forces fluids work and energy are covered from an engineering perspective by designing and building vehicles or other toys with lego blocks then programming them to move and do specific tasks

reports for 1884 1886 87 issued in 2 pts pt 2 being the report of the national museum

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