Phoenix College Physical Science Department

MONTEZUMA WELL, JEROME, TONTO NATURAL BRIDGE FIELD TRIP

ITINERARY					
START	FINISH	MILES	HOURS		
Phoenix College	Montezuma's Well	97.2	2 hrs		
Montezuma's Well			1 hr		
Montezuma's Well	Jerome	28.2	1 hr		
Gasoline stop (Camp Verde)			15 min		
Audrey Headframe			30 min		
Lunch (Jerome City Park)			45 min		
Jerome	Tonto Natural Bridge	74	2 hr		
Tonto Natural Bridge (Fee required)			1 hr		
Tonto Natural Bridge	Phoenix College	104	2 hrs		
	TOTAL:	304	10 hrs 30 min		

TRAVEL DIRECTIONS				
FROM	TO	DIRECTIONS		
Phoenix College	Montezuma's Well	Head west on Thomas Road		
		Merge onto I-17 N and travel north towards Flagstaff		
		Take Exit 252 for Sunset Point Rest Area (STOP)		
		Continue north on I-17		
		Take Exit 293 at Mcquireville		
		Take East Beaver Creek to Montezuma's Well (STOP)		
Montezuma's Well		Return to I-17, travel south,		
	Jerome	Take Exit 287 at Camp Verde,		
		Take Hwy 260 north towards Cottonwood,		
		Turn left on 89A south to Jerome.		
		Turn right on Douglas Rd towards Jerome State Park		
		Continue to Audrey Headframe exhibit (STOP)		
Jerome	Tonto Natural Bridge	Return to Camp Verde		
		Continue south on Hwy 260 and head east of Camp Verde		
		Turn right onto Hwy 87 and travel south towards Pine		
		After passing Pine continue on Hwy 87		
		Turn right onto entrance road to Tonto Natural Bridge.		
		Continue to Tonto Natural Bridge State Park (STOP)		
Return to Hwv 87. turn right towards Pavson				

Tonto Natural Bridge Phoenix College

LOCATION	FEATURE	DESCRIPTION	
BASIN & RANGE		Tensional tectonic forces ~ 30 million years ago, created normal faults which resulted in mountain ranges separated by wide valleys.	
Milepost 231, I-17	New River terraces	Uplift causing rise in base level causing the river to erode downwards forming terraces.	
Milepost 236, I-17	Lake deposits	Light fine-grained layers in road cuts	
Milepost 243, I-17, looking north as you pass Table Mesa Road exit	Black Canyon City landslide	Occurred ~late 1970's – early 1980's.	
Milepost 245, I-17, looking to the right	Black Canyon City landslide, cross-section view		
Along highway north of Black Canyon City as you climb highway incline	Mass wasting prevention techniques	Fences, and metal mesh	
Milepost 249, I-17	Lava flows	Several lava flows can be seen, reddish coloring in between two lava flows	
East of Sunset Point rest stop	Joe Green's Hill	Vent area for the basalt flows that make-up this mesa ("example" of what a shield volcano looks like)	
Milepost 259, I-17	Spheroidal weathering	Weathering of granitic rocks	

beneath City of		(calcium carbonate, CaCO ₃) used in the production	
Jerome		of cement used in making concrete.	
	Jerome	Copper deposits, island arc environment that	
		collided with North American tectonic plate.	
	Audrey Headframe	Mining equipment associated with deep mine shaft.	
COLORADO PLATEAU		This part of Arizona was uplifted approximately 3	
		miles forming the Colorado Plateau. This uplift is	
		what enabled the Colorado River to erode the	
		Grand Canyon.	
	Mogollon Rim	Edge of the Colorado Plateau	
Ramp Basalts		Highway 17 travels north from the Verde Valley up	
		the edge of the Colorado Plateau. Unlike the edge	
		of the plateau north of Payson (i.e. Mogollon Rim)	
		this is a gentle rise. The rise was created when	
		basalt flows on the Colorado Plateau flowed over	
		the edge creating a ramp of basalt.	