

# Educational Programs

## Program 1: Sinking into Karst

### Objectives:

At the end of the program, the student should be able to:

- Define cave and karst related vocabulary
- Name and identify different types of caves
- Explain how solution caves form
- Explain how cave formations develop
- Recognize karst surface features and how they connect to the caves

### KERA Standards:

Academic Expectations meet:

1.3, 1.4, 2.2, 2.3, 2.5, 2.6,  
2.19, 4.4, 5.3, 6.2, 6.3

### Activities:

Times are approximate.

30 minutes The audio visual presentation provides knowledge of the formation of local sedimentary rocks, what is karst, the definition of a cave, how caves form and how formations are deposited.

30 minutes This guided walk around our park takes stops at karst features that provide clues that we live among karst topography.

#### If your trip includes a cave tour in addition to your program:

60 minutes The cave tour fosters a connection between previously discussed surface features and the below ground environment.

### Pre-teach Vocabulary:

A glossary of terms provided for your convenience.

Blue Hole	Flowstone	Pollution	Speleothem
Carbonic Acid	Groundwater	Runoff	Spring
Cave	Karst	Sinkhole	Stalactite
Dissolve	Limestone	Sinking Stream	Stalagmite

## Program 2: Geology Rocks

### Objectives:

At the end of the program, the student should be able to:

- Define rock related vocabulary
- Name and identify the three main rock types
- Describe how a rock and mineral differ
- Investigate rock and mineral specimens
- Explain the connection between the different rock types

### KERA Standards:

Academic Expectations meet:

1.1, 1.3, 1.4, 1.10,  
2.2, 2.3, 2.4, 2.6,  
5.1, 5.3

### Activities:

Times are approximate.

30 minutes The audio visual presentation provides definitions of a rock, mineral and gem, rock types and how each one forms, and how scientists identify them.

30 minutes Sluicing gives participants a hands-on experience to discover their own collection like a true geologist. Guided identification applies basic skills of classification.

#### If your trip includes a cave tour in addition to your program:

60 minutes The cave tour fosters a connection between previously discussed rock and an applied setting.

### Pre-teach Vocabulary:

A glossary of terms provided for your convenience.

Crystal	Igneous	Rock	Geologist	Mineral
Geology	Sedimentary	Gemstone	Metamorphic	Rock Cycle