

# Image for Base Information of School Campus



(Image from Google/USGS Earth Explorer)

# List and discuss your observations of this image



(base image created from Google/USGS Earth Explorer)

**A base image can be an aerial or satellite image. You can use that base image to create a unit map with identified objects or features labeled in units -- categories or classifications. How can you classify or categorize objects you see in the image below?**



**(image from Google/USGS Earth Explorer)**

# CREATING A UNIT MAP

## Considerations when creating your unit map:

1. Decide how will you categorize objects/features you observe in the image.
2. Keep in mind there is no right or wrong answer as long as your categories allow you to group objects/features that have something in common.
3. Example Classifications: *Type of object* (natural versus man-made or sports grounds versus buildings, etc.), *texture, shape, size, or color* of objects/features.
4. The way you categorize the objects/features on your map will provide information to someone observing your unit map. As you make your map, think about its purpose.

## Instructions to create your map:

1. Decide how you will categorize objects/features you observe in the image.
2. Create a list of category topics and underneath each topic, list the objects/features associated with that category.
3. Choose colors to represent each of your categories. This will be the map legend or key.
4. Cover the image with tracing paper to begin creating your unit map.
5. Color each feature according to your map legend.
6. Your map should include a title as well as a map legend. Your legend can be at the top, bottom, or side of your map.

## Optional Additions:

1. If you can estimate any measurement, use that information to create a scale bar.
2. If possible, use a labeled arrow to indicate which way is North.

Do not proceed with the Power Point presentation until students have completed all unit mapping and discussions.

# Unit Map of School Campus



**Map Legend:**  = school grounds     = non-school grounds

# Unit Map of School Campus



**Map Legend:**

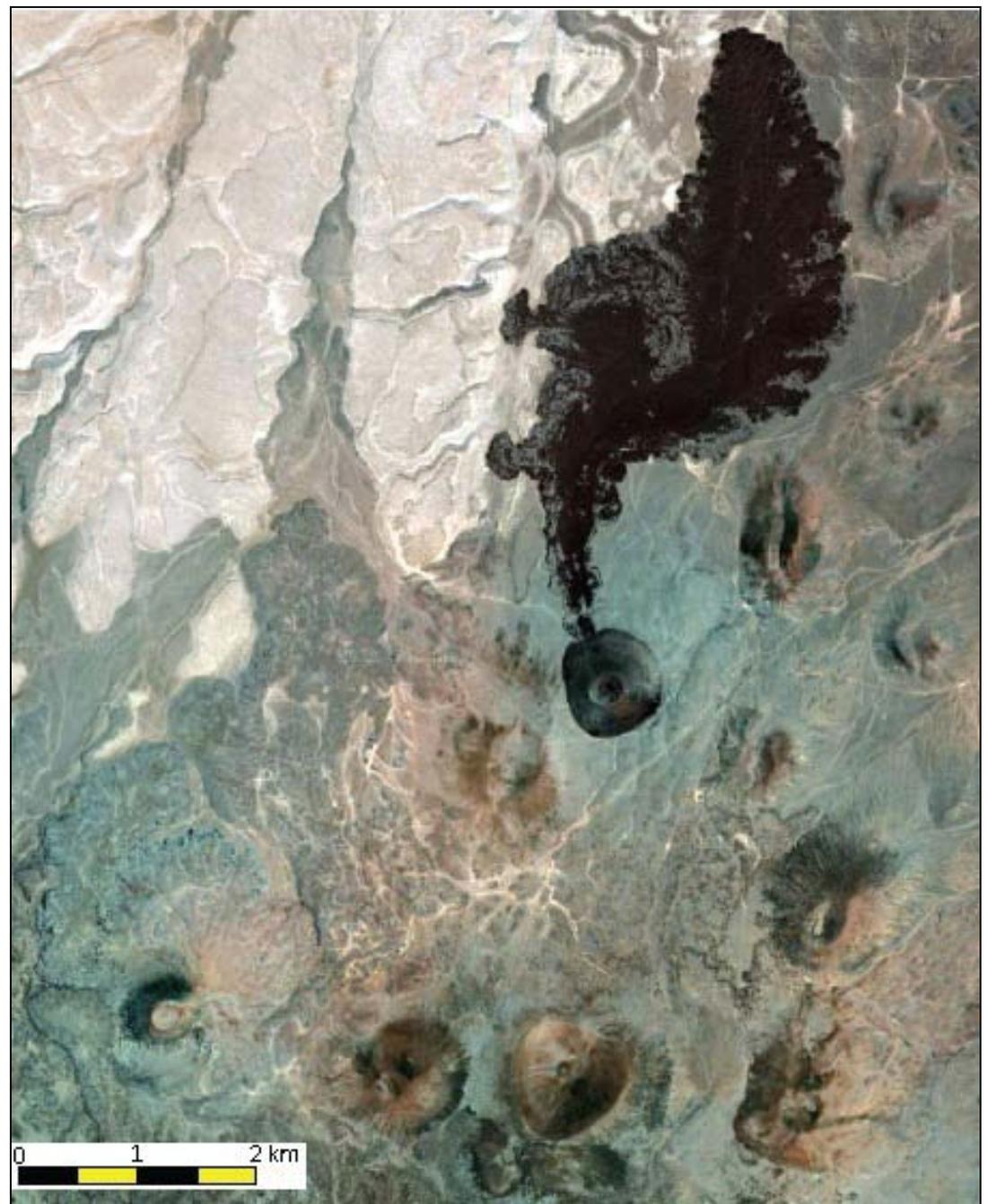
 = grass/trees

 = school building(s)

 = sports fields

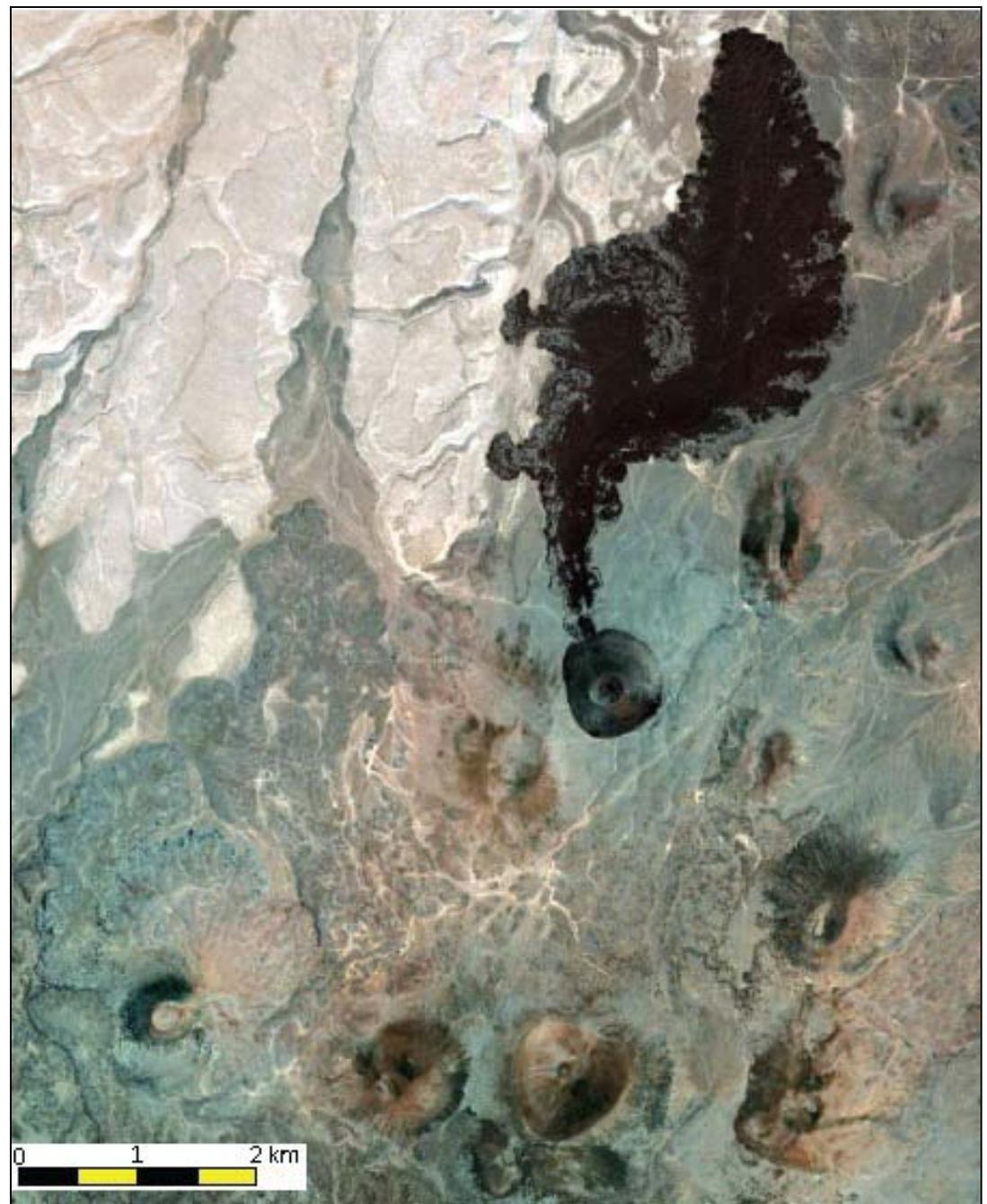
 = non-school community

**Image Base  
Information for  
SP Crater in  
northern Arizona**



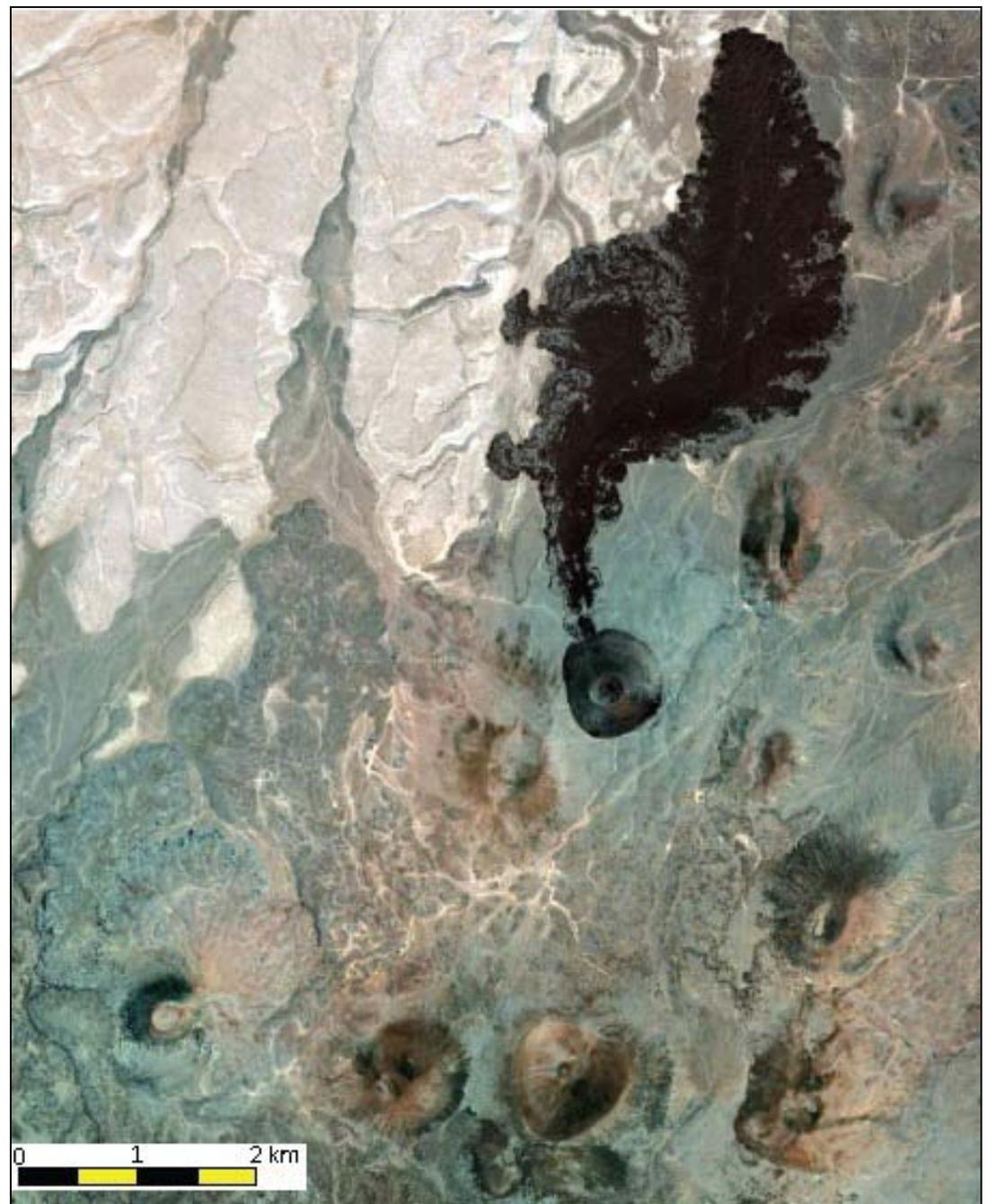
**(map created from Google Maps)**

**List and discuss  
your observations  
of this image**



**(map created from Google Maps)**

**A base image map can be an aerial or satellite image. You can use that base image to create a geologic features unit map that shows categories or classifications of geologic features. How can you classify or categorize features you see in the image?**



**(base image map created from Google Maps)**

# Creating a Geologic Features Unit Map

## Considerations when creating your unit map:

1. Decide how will you categorize features observed in the image.
2. Keep in mind there is no right or wrong answer as long as your categories allow you to group objects/features that have something in common.
3. Example Classifications: *Type of object* (volcano, lava flow, flat plains, channels, etc.), *texture, shape* ( *round or elongate*), *size, or color* of features.
4. The way you categorize the features in your map will provide information to someone observing your geologic unit map. As you make your map, think about its purpose.

## Instructions to create your map:

1. Decide how you will categorize features observed in the image.
2. Create a list of category topics and underneath each topic, list the features associated with that category.
3. Choose colors to represent each of your categories. This will be the map legend or key.
4. Cover the base image map with tracing paper to begin creating your unit map.
5. Color each feature according to your map legend.
6. Your map should include a title as well as a map legend. Your legend can be at the top, bottom, or side of your map.

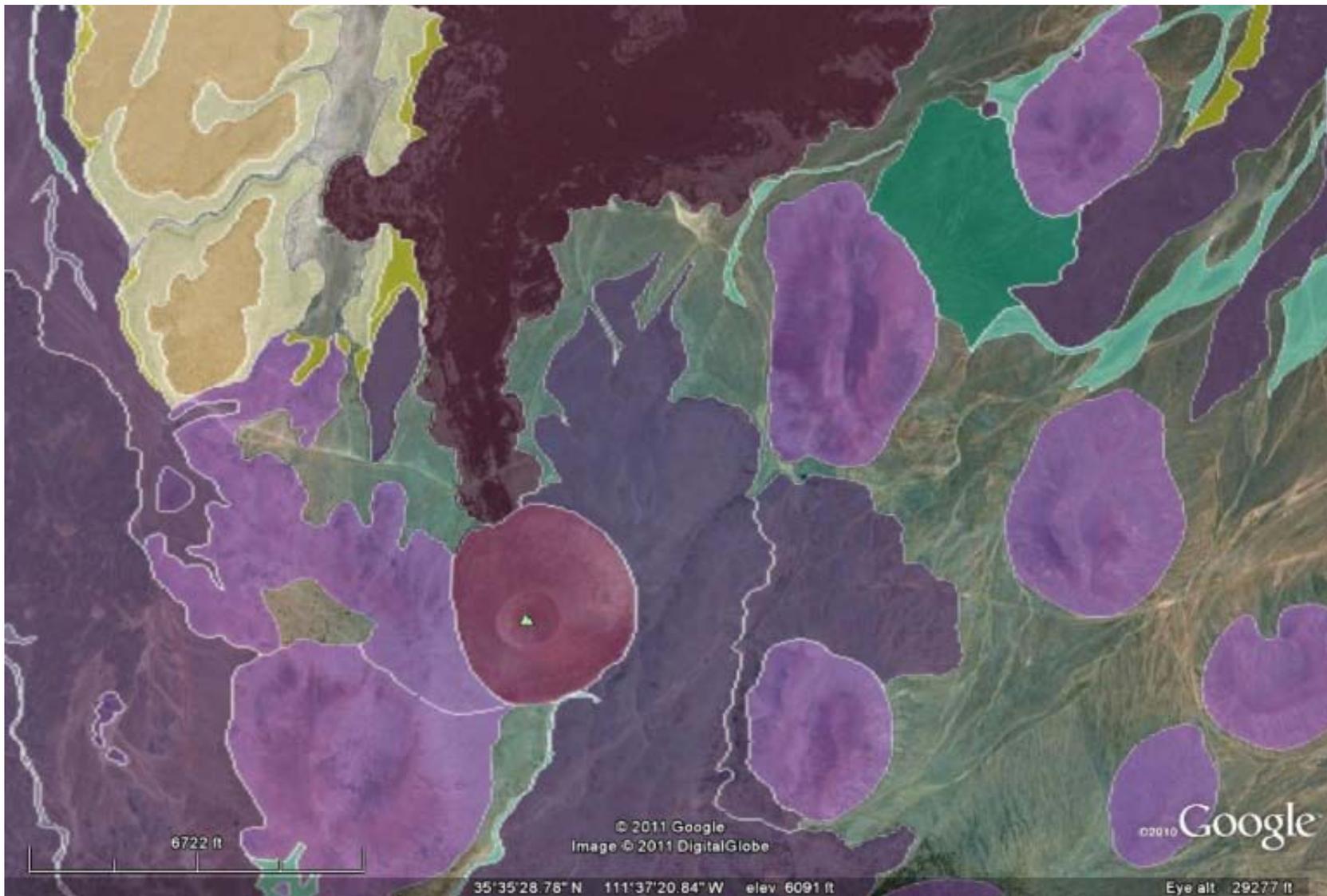
## Optional Additions:

1. If you can estimate any measurement, use that information to create a scale bar.
2. If possible, use a labeled arrow to indicate which way is North.

Do not proceed with the Power Point presentation until students have completed all geologic features mapping and discussions.

# Sample Geologic Features Unit Map of SP Crater

**Note:** This geologic features unit map is of only a small area of the image provided.



**Map Legend:**

	= volcanic cone and lava flow		= lava flows		= volcanic cones		= oldest lava flows
	= bedrock		= younger bedrock		= ???		= ???