



Geographic Information Systems (GIS)

Creating a Feature Layer

Name: _____

Section: _____

Score: ____/5

Directions: You will be working with a partner to create a feature layer that can be used with other layers.

Step 1: Create your feature layer

1. Sign in to ArcGIS as normal
2. Navigate to a new blank map
3. Use the top bar and select **Add** and choose that you would like to **Add Map Notes**
4. Use the Freehand Area tool to create polygons for each of the suburbs below
 - Divide the workload between you and your partner
 - o You will share your layers with each other
 - Make them different colors so that you can distinguish between the different cities
 - Put links on each polygon to the city government's homepage
 - Add text layers to the suburbs that are starred

<p>Northern Minneapolis Suburbs</p> <p>Albertville Andover * Anoka * Big Lake Brooklyn Center * Brooklyn Park * Champlin * Columbia Heights Coon Rapids * Crystal * Dayton Elk River * Maple Grove * Monticello Mounds View * Osseo * Otsego Ramsey Robbinsdale * Rogers * Spring Lake Park St. Anthony St. Michael *</p>	<p>Delano Eden Prairie * Edina * Excelsior MN Golden Valley * Greenwood Hanover Hopkins * Long Lake Medina Lilydale Mendota Mendota Heights Rosemount * Sunfish Lake Minnetonka * Minnetrista Mound New Hope Orono * Plymouth * Rockford Shorewood Spring Park St. Bonifacius St. Louis Park * Tonka Bay Victoria Waconia * Wayzata * Woodland</p>	<p>Southern Minneapolis Suburbs</p> <p>Apple Valley * Bloomington * Burnsville * Elko New Market New Prague Prior Lake * Richfield * Savage * Shakopee *</p> <p>Eastern Saint Paul Suburbs</p> <p>Bayport Cottage Grove * Hudson Lake Elmo Lake St. Croix Beach Maplewood * Marine on St. Croix Newport North Saint Paul Oak Park Heights Oakdale Pine Springs South St. Paul * St. Paul Park Stillwater * West St. Paul Woodbury *</p>
<p>Western Minneapolis Suburbs</p> <p>Buffalo * Carver Chanhassen * Chaska * Corcoran Deephaven</p>		

Northern Saint Paul Suburbs	Southern Saint Paul Suburbs	
Arden Hills Bethel Blaine * Centerville * Circle Pines Dellwood Falcon Heights Forest Lake * Fridley * Gem Lake Ham Lake Hugo Lauderdale Lexington MN Lino Lakes * Little Canada Mahtomedi * Mounds View * New Brighton North Oaks Roseville * Scandia Shoreview * Spring Lake Park Vadnais Heights White Bear Lake * Wyoming	Apple Valley * Burnsville * Eagan * Farmington * Hastings * Inver Grove Heights * Lakeville *	

Step 2: Sharing your Feature Layer

1. Save your map as Twin Cities Feature Layer <Name>
2. Publish it to the GIS group
3. Choose one partner that will be creating the final map
4. On their account open up their layer and **Add** your layer by using the top bar menu to **Search for Layers**
 - The layer should be within the My Organization option or you can search within the Geographic Information Systems Class group. Make sure you are using your partner's layer
5. Once the map contains both partner's maps save it and re-publish it