Explore the imports, exports, trade, and GNI of countries in North America.

C3:D2.Geo.5.6-8. Analyze the combinations of cultural and environmental characteristics that make places both similar to and different from other places. C3:D2.Geo.2.6-8. Use maps, satellite images, photographs, and other representations to explain relationships between the locations of places and regions and changes in their environmental characteristics.

Learning Outcomes
- Explore trade through exports and imports in North America.
- Integrate satellite imagery of a hurricane with a plot of the hurricane’s path.

Map URL: http://esriurl.com/worldGeoInquiry15

Ask

What is the gross national income (GNI) in Canada, Mexico, and the United States?

- Click the link above to launch the map.
- With the Details button underlined, click the button, Show Contents.
  - GNI = GDP + [(income from citizens and businesses earned abroad) – (income of foreigners living in the country sent back to their home countries)]
- In the map, click Canada, Mexico, and the United States to answer the following question.
  - What is the 2014 GNI of each country? [Canada: $43,400; Mexico: $16,500; U.S.: $55,860]

Acquire

Which countries are the top trading partners of Canada?

- Uncheck the box to the left of the layer name, GNI 2014.
- Turn on the layer, Imports/Exports – North American Countries.
- In the map, click Canada.
- Pause your pointer over the pie graph segments to view the percentage of exports.
  - Which two countries does Canada export to the most? What are the percentages? [U.S., 77%; China, 4%]
- Click the arrow to the right of the export graph to view imports to Canada.
  - Which three countries does Canada import from the most? What are the percentages? [U.S., 52%; China, 12%; Mexico, 6%]
  - What generalization can you make about Canada’s exports and imports? [Canada exports 25% more goods to the U.S. than it imports from the U.S., and it exports fewer goods to China than it imports from China.]

Explore

Which countries are the top trading partners of Mexico?

- In the map, click Mexico.
- Pause your pointer over the pie graph segments to view the percentage of exports.
  - Which country does Mexico export to the most? What is the percentage? [U.S., 81%]
- Click the arrow to the right of the export graph to view imports to Mexico.
  - Which three countries does Mexico import from the most? What are the percentages? [U.S., 47.3%; China, 17.7%; Japan, 4.4%]
  - What generalization can you make about Mexico’s exports and imports? [Mexico exports most goods to the U.S., with almost half of its imports from the U.S., 18% from China, and 4% from Japan]
Analyze

Which countries are the top trading partners of the U.S.?

➔ In the map, click the United States.
➔ Pause your pointer over the pie graph segments to view the percentage of exports.
➔ Which four countries does the U.S. export to the most? What are the percentages? [Canada, 18.6%; Mexico, 15.7%; China, 7.7%; Japan, 4.2%]
➔ Click the arrow to the right of the export graph to view imports to the U.S.
➔ Which five countries does the U.S. import from the most? What is the percentage? [China, 21.5%; Canada, 13.2%; Mexico, 13.2%; Japan, 5.9%; Germany, 5.5%]
➔ What generalization can you make about U.S. exports and imports? [The U.S. exported more goods to Canada and Mexico than it imported from them; to China, the U.S. exported a third of what it imported; and a small amount of approximately equal exports and imports were made from/to Japan]

Act

How does trade vary in other parts of the world?

➔ Can you draw any connections between the GNI and trade in North American countries? [Answers will vary.]
➔ Click the World bookmark. (See the ToolTip below for details.)
➔ Turn on the layer, Imports/Exports – All Countries. Click on a country in Asia, Europe, Africa, and South America to answer the following question.
➔ How does trade vary in those countries compared to in North America? [Answers will vary.]

IDENTIFY A MAP FEATURE

• Click a feature on the map, and a pop-up window will open with information.
• Links and images in the pop-up are often clickable.
• An arrow icon in the upper right of the window indicates that multiple features have been selected.
• Click the button to scroll through the features.

ZOOM TO A BOOKMARK

• Click Bookmarks.
• Click a bookmark name to zoom to a map location and scale.

Next Steps

DID YOU KNOW? ArcGIS Online is a mapping platform freely available to public, private, and home schools. A school subscription provides additional security, privacy, and content features. Learn more about ArcGIS Online and how to get a school subscription at http://www.esri.com/schools. THEN TRY THIS...

• Having students choose one of the seven countries, use the Data Enrichment tool to compute the 2018 population.
• Click the new country data and compare the previous population to the 2018 population.

TEXT REFERENCES

• World Cultures and Geography by McDougal Littell
• My World Geography by Pearson

This GIS map has been cross-referenced to material in sections of chapters from these middle school texts.