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| **Subject:** | Math |
| **Title:** | Champions Through Time |
| **Grade Level:** | 3 |
| **Purpose:** | * Students explore which countries have won the World Juniors Tournament in previous years.
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| **Curricular****Connections:** | * Collect data and organize it using tally marks, line plots, charts and/or lists to answer questions.
* Construct, label and interpret bar graphs to solve problems
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| **Materials:** | * Personal electronic device with internet connection
* Online list of past championship winners (Available at <http://www.worldjunior2015.com/en/information/#history>)
* Document camera – for demonstration purposes (camera device that connects to a SmartBoard)
* Blank paper
* 1cm square graph paper
* Pencils and pencil crayons
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| **Activity:** | 1. Ask students, **‘Are you going to watch some games in the World** **Junior Hockey Tournament?’** Have students choose either ‘yes’, ‘maybe’, or ‘no’ as their reply.
2. Ask, **‘How can we record everyone’s answers?’** Students share ideas. Using the document camera, model the various ways that the data to the question in step one can be collected and recorded on blank paper.
3. Ask, **‘How can I visually represent this data?’** Students share ideas and then model how to turn the data into a bar graph using a piece of graph paper and the document camera. Emphasize that the bars can be colored in after they are drawn and double-checked for accuracy.
4. Show students how to label the various graph components, and where to write the title.
5. Explain that their task is to research and create a graph to show which countries have won the gold medal at the World Junior Championship Tournament in previous years.
6. Students view the website for online list of past championship gold medal winners and collect and organize the data needed. (Inform students that they can group Soviet Union wins and Russia wins together.)
7. They use the data they have collected and organized to create a bar graph.
8. Have students explain to a partner how they organized their data, before making their graphs.
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| **Extension:** | * Students graph which countries have won the silver and bronze medals since the tournament’s inception.
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| **Assessment:** | 1. Students submit their collection of data and their graphs. Assess if students:
* Organized the data in an efficient manner.

 - Properly displayed data on the bar graph. |