

2022 Academic Super Bowl  
Junior English  
Study Guide  
Canada: Our Neighbor to the North



- I. Novel - 35%
  - A. Calvin: A Novel by Martine Leavitt
  
- II. Short Stories - 35%
  - A. "The Marine Excursion of the Knights of Pythias" by Stephen Leacock  
<http://www.online-literature.com/stephen-leacock/sunshine-sketches-of-a-little-/4/>
  - B. Selections from "Medicine River" by Thomas King  
(Chapters 1, 2, and 15)
  
- III. Poetry - 30%
  - A. "The Shark" by E. J. Pratt  
<https://allpoetry.com/The-Shark>
  - B. "The Forsaken" by Duncan Scott Campbell  
<https://rpo.library.utoronto.ca/content/forsaken>
  - C. "This is a Photograph of Me" by Margaret Atwood  
<https://poets.org/poem/photograph-me>
  - D. "Carrying Someone Else's Infant Past a Cow in a Field Near Marmora, Ont  
by Ken Babstock  
<https://www.poetryinternational.org/pi/poem/22589/auto/0/0/Ken-Babstock/CARRYING-SOMEONE-ELSE-ELSES-INFANT-PAST-A-COW-IN-A-FIELD-NEAR-MARMORA-ONT/en/tile>

See 2nd page for list of resouces additional to websites listed above

Study Outlines are developed from ideas submitted by coaches and question writers.

Please email ideas for the 2023 contest, *The Age of Exploration: 1400-1650*, to Jill Slinker at [jslinker@iasp.org](mailto:jslinker@iasp.org)

**Q&A with Martine Leavitt**

<https://www.publishersweekly.com/pw/by-topic/childrens/childrens-authors/article/68714-q-a-with-martine-leavitt.html>

**The Marine Excursion of the Knights of Pythias**

<https://theknightsofpythias.wordpress.com/>

**Lit Charts** (only what is free) for *This is a Photograph of Me* (required to join site)

<https://www.litcharts.com/poetry/margaret-atwood/this-is-a-photograph-of-me>

**Canadian Poetry.org** on *The Forsaken*

<http://canadianpoetry.org/volumes/vol1/meckler.html>

**Interview with Ken Babstock**

<https://www.poetryinvoice.com/poems/poets/ken-babstock>

**The Heritage on E.J. Pratt**

<https://www.heritage.nf.ca/articles/arts/e-j-pratt.php>

**Medicine River as Associating Literature**

<http://www.inquiriesjournal.com/articles/391/thomas-kings-medicine-river-as-associational-literature>

**Is Your Reality Real? The Dual Existence of Hobbes in Calvin and Hobbes as an Example of Subjective Realities**

<https://medium.com/@kiralye/which-reality-is-really-reality-the-dual-existence-of-hobbes-in-calvin-and-hobbes-6f50f5f6a90c>

2022 Academic Super Bowl  
Junior Math  
Final Study Guide  
Canada: Our Neighbor to the North



- I. Sets and Number Theory - 33%
- A. Real, rational, irrational, integer, whole, natural numbers
  - B. Special Numbers
    - 1. Prime
    - 2. Perfect squares
    - 3. Triangular
    - 4. Pentagonal
    - 5. Abundant
    - 6. Deficient
  - C. Subset notation  $\subset$
  - D. Empty set  $\{ \}$
  - E. Universal set - the set of all objects or elements considered in a given problem
  - F. Union  $\cup$
  - G. Intersection  $\cap$
  - H. Complement of A is  $A'$
  - I. Venn Diagram
- II. Factoring - 33%
- A. Prime factorization
  - B. Least common multiple (LCM) and Greatest common factor (GCF)
    - 1. Numbers
    - 2. Polynomials
  - C. Trinomial, difference of squares, sum or difference of cubes
    - Use of discriminant to determine if polynomial can be factored
  - D. Factoring by grouping
- III. Right Triangles - 33%
- A. Pythagorean triple
  - B. Pythagorean Theorem
  - C. Solve 30-60-90 and 45-45-90 triangles
    - Simplified radical form or decimal approximation for side length
    - Angle measurement in degrees
  - D. Cosine, sine, tangent, secant, cosecant, cotangent ratios (use of abbreviations) to solve right triangles
  - E. Angles of elevation and depression

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# 2022 Academic Super Bowl

## Junior Science

### Final Study Guide

Canada: Our Neighbor to the North



- I. Measurement - 20% (*measurement skills emphasis*)
  - A. SI Units of measurement  
(distance, mass, volume, temperature, derived SI units)
  - B. SI System  
(choose correct measurement units and applications-metrics)
  - C. Measurement based calculations (unit conversions emphasizing metric prefixes)
  - D. Climogram interpretation and comparisons (boreal zone to other zones)
  - E. Interconvert English-Metric system measurements to appropriate Metric-English equivalents
  
- II. Water - 20% (*physical, chemical and environmental properties*)
  - A. Geology and water
  - B. Water quality (dissolved oxygen, pH, etc - Great Lakes emphasis)
  - C. Abiotic factors of water (ie: temperature) and related impact on aquatic organisms
  - D. Fish (as related to water quality, physical and geographic factors)  
(emphasis on trout and sturgeon)
  
- III. Boreal Forest - 40% (*focus on biological and ecological concepts*)
  - A. Tree and plant species (biotic components, adaptations, types, variations)
  - B. Geological factors (soil, temperature, Holdridge chart, etc)
  - C. Animal wildlife (emphasis on migratory birds-Canadian goose and Canadian warbler; migrations, unique adaptations to the forest community)
  - D. Global impacts (wildlife, atmosphere, climate, etc)
  - E. Nutrient cycles (carbon cycle emphasis)
  - F. Food chain/web (producers, consumers-orders-biotic/abiotic interactions)
  
- IV. Natural resources and management - 20% (*focus on environmental concepts*)
  - A. Mining practices (Tar Sands, underground mining processes, open pit mining)
  - B. Soils (sphagnum moss)
  - C. Wetlands (types, conditions, impact on Canadian wildlife)
  - D. Carbon reservoir (boreal forest carbon capture and retention)
  - E. Timber (Canadian tree species, impact/uses)

See separate document for resources

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# 2022 Academic Super Bowl

## Junior Social Studies

### Final Study Guide

Canada: Our Neighbor to the North



- I. The History of Canada - 30%
  - A. Aboriginal Canada
  - B. First European Contacts
  - C. Struggle for a continent between France and England
  - D. Canada becomes a nation
  - E. Modern Canada
  
- II. The Geography of Canada - 30%
  - A. Canadian provinces, territories, and their capitals and largest cities
  - B. Major mountain ranges, rivers, bays, straits, and other land features
  - C. Climate / vegetation / population distribution
  - D. Geography and the Canadian Economy
    - 1. Important natural resources by province or territories
    - 2. Agriculture, industry, mining, and manufacturing by province or territories
    - 3. Canada's major exports and trading partners
  
- III. The Government of Canada - 30%
  - A. Similarities and differences with the United States
  - B. The Canadian judicial and legal system
  - C. Famous Canadian Prime Ministers and important events during their tenure
    - 1. John A. Macdonald
    - 2. Wilfred Laurier
    - 3. Robert Borden
    - 4. William Lyon Mackenzie King
    - 5. John Diefenbaker
    - 6. Lester Pearson
    - 7. Pierre Trudeau
    - 8. Brian Mulroney
    - 9. Justin Trudeau
  
- IV. Important Issues Facing Canada Today - 10%
  - A. Political
    - 1. The Question of Quebec Separatism
    - 2. Racism and the rise and threat of Extremism
  - B. Environmental
    - 1. The causes and effects of climate change in Canada
    - 2. The impact of Canadian industry on the environment
  - C. Social and Cultural
    - 1. Protecting the rights of Canadian indigenous people/Canada's immigration policy
  - D. Economic
    - 1. Housing
    - 2. Wealth inequality

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## Sources

For the most up-to-date information, the questions for this competition will come from a variety of internet articles and websites rather than a single book.

The best website for all things Canada is <https://thecanadaguide.com/>

This website is a must for all coaches and teams. It is easy to navigate.

Another important article is from **the official website of the Government of Canada**

<https://www.canada.ca/en.html> entitled “Discover Canada—Canada’s History,”

<https://www.canada.ca/en/immigration-refugees-citizenship/corporate/publications-manuals/discover-canada/read-online/canadas-history.html>

### I. History of Canada

Once you have researched the above websites on Canadian history, the following would be useful for a more detailed look at Canada’s history:

“**History of Canada**” [https://en.wikipedia.org/wiki/History\\_of\\_Canada](https://en.wikipedia.org/wiki/History_of_Canada)

“**Canada—History, Geography, and Culture**” by William Lewis Morton

<https://www.britannica.com/place/Canada>

### II. Geography of Canada

For an overview of Canada’s geography please see the following:

“**Geography—The Canada Guide**” <https://thecanadaguide.com/>

“**The Geography of Canada**” Wikipedia [https://en.wikipedia.org/wiki/Geography\\_of\\_Canada](https://en.wikipedia.org/wiki/Geography_of_Canada)

“**Canada—History, Geography, and Culture**” by William Lewis Morton.

<https://www.britannica.com/place/Canada>

For a look at the Canadian Economy and the major industries in each province, the following should be consulted:

“**The Economy of Canada**” [https://en.wikipedia.org/wiki/Economy\\_of\\_Canada](https://en.wikipedia.org/wiki/Economy_of_Canada)

“**Canada—Economy**” Britannica <https://www.britannica.com/place/Canada/Economy>

“**Canada’s Economic Structure—The Canadian Economy**”

<https://canadianvisa.org/life-in-canada/economy/structure>

“**Canada’s Main Manufacturing Industries—Canada’s Key Industries**”

<https://canadianvisa.org/life-in-canada/economy/structure>

“**What are the Biggest Industries in Canada?**” World Atlas

<https://www.worldatlas.com/articles/what-are-the-biggest-industries-in-canada.html>

“**Key Industries in Canada—Life in Canada**”

<https://canadianvisa.org/life-in-canada/economy/structure>

**III.** For a good overview of Canada’s government, political, legal, and judicial system, begin with the appropriate sections of **The Canada Guide** <https://thecanadaguide.com/>

To get a more detailed view of Canadian politics, especially how modern writers rank the Prime Ministers chosen for the outline, please see the following:

“**Reflections on Canada Day, 2020—Ranking the Prime Ministers,**” by Jared Milne

<https://jared-milne.medium.com/reflections-on-canada-day-2020-ranking-the-prime-ministers-9b8c0f974083>

“**A Ranking of Canadian Prime Ministers of All-Time,**”

<http://www.duhaime.org/LawMuseum/CanadianLegalHistory/LawArticle-1647/A-Ranking-of-Canadian-Prime-Ministers-of-All-Time.aspx>

“**PREST: Who is the best Canadian Prime Minister Ever?**” by Andy Prest. North Shore News.

<https://www.nsnews.com/opinion/prest-who-is-the-best-canadian-prime-minister-ever-3109228>

“**Ranking Canada’s Best and Worst Prime Ministers,**” by Stephen Azzi and Norman Helmer.

<https://www.macleans.ca/politics/ottawa/ranking-canadas-best-and-worst-prime-ministers/>

**IV.** For information on Quebec and other issues facing Canada today, please visit the following websites:

“**Canada—Quebec Separatism**”

<https://www.britannica.com/place/Canada/Quebec-separatism>

“**What are the Social Problems in Canada Today?**” by Veeno Dewan.

<https://drihtimagazine.com/current-affairs/2018/09/what-are-the-social-problems-in-canada-to-day-by-veeno-dewan/>

“**World Report 2021: Canada**”

<https://www.hrw.org/world-report/2021/country-chapters/canada>

“**Opinion: There are Five Must-Tackle Challenges for Canada in 2021**”

<https://calgaryherald.com/opinion/columnists/opinion-there-are-five-must-tackle-challenges-for-canada-in-2021>

“**The Biggest Environmental Issues in Canada**” World Atlas.

<https://www.worldatlas.com/articles/the-biggest-environmental-issues-in-canada.html>

“**Canada’s Immigration Policy Isn’t Really that Welcoming**” by Tony Keller, July 12, 2018.

<https://www.theatlantic.com/ideas/archive/2018/07/canada-immigration-success/564944/>

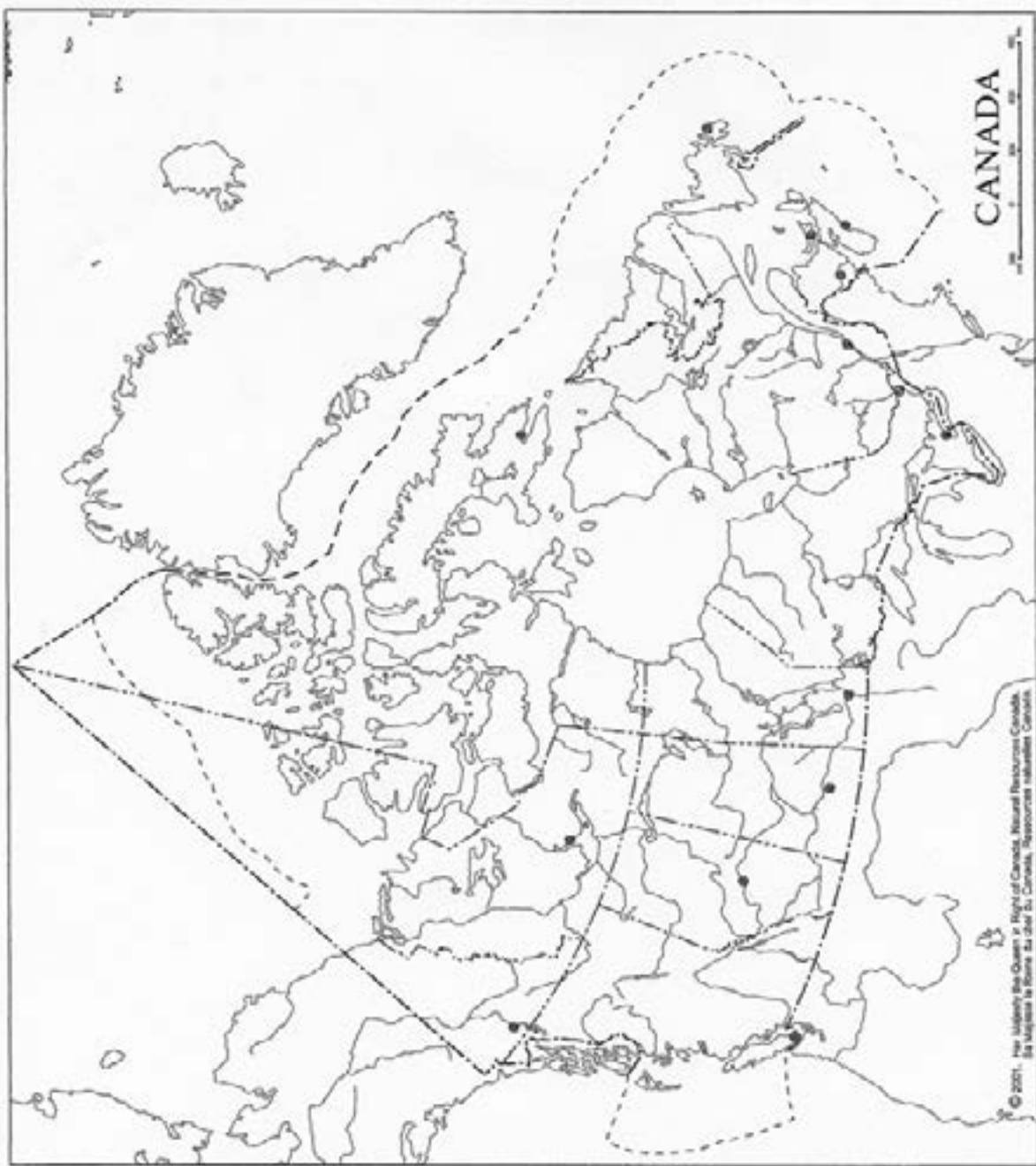
Note to Coaches:

On the following page you will find a blank outline map of Canada that your team members may find useful in labelling the provinces, territories, their capitals and other major cities as well as other important geographical features.

For more free downloadable outline maps, please see the following websites:

<https://www.nrcan.gc.ca/earth-sciences/geography/atlas-canada/explore-our-maps/reference-maps/16846>

<http://www.printablemaps.net/north-america-maps/canada-maps/>



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Ensemble le Royaume du Québec, Ressources Naturelles Canada.