



CPAWS STUDENT ECO PROJECT COMPETITION SAMPLE TOPICS/QUESTIONS

- How do elevated phosphorus levels impact invertebrates in freshwater bodies like Lake Winnipeg? What strategies might help to reverse this trend and improve overall ecosystem health?
- How do zebra mussels impact the water chemistry of freshwater lakes? What solutions might help to resolve this issue?
- Why are wetlands an integral part of Lake Winnipeg's ecosystem? How can they be preserved?
- Can native fungi/ bacteria breakdown plastic, petroleum products and pesticides? How could this best be achieved?
- Identify a boreal species that is endangered. Explain why the species is under threat and recommend actions that could be taken to reverse this trend?
- Do hydro dams change water chemistry and substrate biodiversity? How does this compare to beaver dams? Can the construction of the reservoirs be modified to minimize their effects?
- How does forest fire intensity impact the rate of forest regeneration and the species composition that return first? How might forest fire control programs be designed to enhance forest recovery?
- How do farming practices affect the amounts of nutrients flowing into our water systems? What modifications to these practices could be used to reduce the effects?
- How can farming practices alter soil biodiversity and/or sequester carbon from our atmosphere? What modifications to these practices could be used to reduce/enhance the effects?