

# SAMPLE QUESTIONS HIGH (grades 10 – 12)



## ENVIRONMENTAL MIND GRIND GAME FORMAT

- All High School Teams will compete at the BC Playoffs on Saturday, May 3 at Okanagan College, KLO Campus, Kelowna.
- The competition is based on games of seven questions. After a question is asked, the team to first buzz in has an opportunity to answer. If the team answers correctly, they receive a point, if the team answers incorrectly, one person from the opposing team has the opportunity to answer. If they answer correctly, their team receives a point, if they answer incorrectly, no points are given and the game proceeds to the next question. The team with the most points at the end of seven questions advances to the next round. After 7 questions if the teams are tied, a tie-breaking question will be asked to determine the winner of that game.
- Each participating team is guaranteed to play a minimum of two games at the event. The games will be played "double knock-out" style, once a team has lost twice; they are out of the competition.

## SAMPLE QUESTIONS

**1. What is natural gas primarily made up of?**

Methane

**2. How much of BC do forests cover?**

2/3 of BC or 60 million hectares

**3. Name 2 human induced factors for extinction.**

Pollution, pesticides, resource exploitation, introduction of non-native species

**4. What is the definition of zero waste?**

The recycling of all materials back into nature or the marketplace in a manner that protects human health and the environment.

**5. How much can you reduce your water use by if you install low flow showerheads in your home?**

20-40%

**6. Name three reasons why native vegetation is important to watersheds.**

Provides shade, prevents erosion, provides habitat for fish, provides habitat for wildlife, improves water quality, improves air quality, provides food for fish and wildlife.

**7. Name 2 human sources of fine particulates.**

Combustion, incineration, construction, grinding processes, agricultural activity (smoke from burning stumps and prunings), and transportation (vehicle exhaust, dust from roads)

**8. What is Mercaptain used for?**

Mercaptain is a chemical that stinks like rotten eggs or sulphur and is added to natural gas for safety

**9. What is the definition of reforestation?**

The act of replanting or promoting natural regeneration in a forest area to replace trees removed by harvest or destroyed by fire, wind or disease.

**10. What is the definition of an indicator species?**

A species that is easily affected when changes happen to its habitat.

**11. Name three types of liners used in landfills?**

Clay, plastic and composite.

**12. Name three characteristics of drought.**

Low precipitation, low humidity, high temperatures and sometimes wind.

**13. Is it better to wash a car on gravel or pavement?**

It is better to wash a car on gravel or grass to allow pollutants to be filtered by soil before they reach the creek.

**14. What are the 2 most common sources of air pollution?**

Burning and vehicles

**15. Which country is the heaviest user of energy in the world per capita?**

Canada

**16. Name two things that can kill a tree?**

Fire, disease, insects.

**17. Name one reason why the badger is endangered?**

Because the habitat suitable for this animal is also desirable for human habitat, recreation, urban development, and grazing land.

**18. Name one way compost can improve a soil.**

Compost helps retain moisture and returns needed nutrients to deplete soil.

**19. How much water does the average Canadian use per day?**

326 litres.

**20. What is the definition of an impervious surface?**

A surface, such as pavement and rooftops, that rain cannot penetrate.

**21. Other than air pollution, name one other way vehicles pollute our environment.**

- Leak oil and other fluids which get washed into our waterways
- Require roads, highways, parking lots, garages, and driveways that take up open space and damage sensitive areas
- Once discarded take up space and are unsightly
- Create noise pollution.

**22. Why should you change your furnace filters regularly?**

Dirty clogged filters can reduce airflow and make your furnace work harder and less efficiently

**23. Name one defense mechanism against insect and disease for a species like Douglas fir or Ponderosa pine.**

Bark and resin.

**24. Name one reason why the Great Blue Heron species is of special concern.**

Because their nesting and foraging habitats are declining.

**25. How many kilograms of waste are created to create one kilogram of consumer goods?**

5

**26. What are the 4 R's of water conservation?**

Reduce, repair, retrofit, reuse

**27. Name two ways impervious surfaces impact a creek.**

Change the natural hydrology of a creek and increase pollution.

**28. What is one goal of Transportation Demand Management**

Improve air quality and reduce traffic congestion by encouraging people to use environmentally friendly and healthy forms of transportation.