

SAMPLE QUESTIONS

Middle (grades 7 – 9)



ENVIRONMENTAL MIND GRIND GAME FORMAT

- All Middle School teams will compete on Saturday, April 19 at Skycourt in Orchard Park Mall.
- 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.
- First and second place teams of each of the categories are invited to play in the “BC Play-offs” against other EMG communities on Saturday, May 3 at the Okanagan College, KLO Campus, Kelowna.

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 are the four ingredients that make up soil?**
Rock, organic matter, water, air
5. **How does a low flow shower head compare with a standard one?**
A low flow showerhead uses 35 litres of water while a standard one uses 100 litres of water!
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. **Name two factors used to determine which tree species are used when an area is being reforested?**
Site conditions, elevation, and climate of the area being reforested.
10. **What is the definition of an indicator species?**
A species that is easily affected when changes happen to its habitat.
11. **What three soil types is an ideal, loose, well draining soil, made up of?**
Sand, silt, clay
12. **What is the ultimate source of fresh water?**
Precipitation of atmosphere in the form of rain and snow.
13. **Which stream habitat is considered the most productive area of the stream?**
Riffles.

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.

Can enable sandy soils to retain water, improve water flow of clay soils, it decreases (in the case of sandy soil) or increases (in the case of clay soil) the amount of air spaces around roots, it increases the amount of nutrients available to plants

19. How does drip or trickle irrigation work?

These systems provide water close to the plant root zone almost continuously, through small-diameter tubes and emitters.

20. Why are wetlands considered to be like kidneys?

Wetlands store water and filter out sediment, pollutants and excess nutrients, improving water quality in the surrounding area.

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. Which insect is threatening BC's interior forests?

Mountain pine beetle.

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

Because their nesting and foraging habitats are declining.

25. What is the definition of planned obsolescence?

A policy of designing and making products to quickly wear out or become out of date so people will have to buy replacements.

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

Reduce, repair, retrofit, reuse

27. Name three types of stream habitat.

Pools, riffles, run and glide.

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.