LEARNING AND LIVING SUSTAINABLY: EARTH SYSTEMS, CONTEMPORARY CHEMISTRY, SAFETY, AND APPLIED DESIGN CHALLENGE - PRACTICE TEST | NEW BRUNSWICK SCIENCE 10 (SCIENCE FOR SUSTAINABLE SOCIETIES) · UNIT D · 25 QUESTIONS

Learning and Living Sustainably: Earth Systems, Contemporary Chemistry, Safety, and Applied Design Challenge — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

A Town Cuts Waste

Use this reading for questions 1 to 3.

The town of Sussex set a goal to cut household waste in half within three years. At first, many residents were unsure how to sort compost, recycling, and garbage. The town sent a clear guide to every home and placed labelled bins at the community centre.

Within a year, the amount of garbage sent to landfill fell by a third, and the compost program grew quickly. Local schools joined in, and students tracked their classroom waste each week. Some residents still struggled with sorting, so volunteers visited homes to answer questions.

By the third year, the town had met its goal. The council credited clear information, steady habits, and neighbours helping neighbours, rather than any single new technology.

1 **According to the passage the town met its goal mainly through**

- **A** clear information steady habits and neighbours helping
- **B** a single new technology
- **C** higher fines only
- **D** closing the landfill

Understand It with Pulse | Flag a mistake

2 **The passage shows that the compost program grew after the town sent a**

A bill to every home

B clear guide to every home

C warning to every home

D new tax notice

Understand It with Pulse | Flag a mistake

3 **A reader can infer that volunteers visiting homes helped mainly by**

A collecting garbage fees

B closing the community centre

C answering sorting questions

D punishing mistakes

Understand It with Pulse | Flag a mistake

4 **The graph shows a town waste total falling from 100 tonnes to 60 tonnes. The decrease in tonnes is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Sustainability means meeting present needs without harming the ability of future generations to meet**

A present wants only

B past needs

C one town only

D their needs

Understand It with Pulse | Flag a mistake

6 **An Earth system includes the atmosphere hydrosphere lithosphere and**

A biosphere

B technosphere only

C magnetosphere only

D exosphere only

Understand It with Pulse | Flag a mistake

7 **The water cycle is driven mainly by energy from the**

A Moon

B Sun

C Earth core only

D wind only

Understand It with Pulse | Flag a mistake

8 **A renewable resource is one that is replaced**

A never

B only by factories

C naturally over time

D only once

Understand It with Pulse | Flag a mistake

9 **A nonrenewable resource is used faster than it is**

A found

B sold

C measured

D replaced

Understand It with Pulse | Flag a mistake

10 **Reducing waste is better than recycling because it avoids creating waste in the**

A first place

B last place

C recycling plant

D landfill only

Understand It with Pulse | Flag a mistake

11 **Composting turns organic waste into a material useful for**

A fuel only

B soil

C plastic

D glass

Understand It with Pulse | Flag a mistake

12 **A safety symbol for a corrosive chemical warns that it can**

- A catch fire only
- B explode only
- C damage skin or materials
- D glow in the dark

Understand It with Pulse | Flag a mistake

13 **When working in a lab eye protection is worn to protect against**

- A noise only
- B cold only
- C smells only
- D splashes and flying material

Understand It with Pulse | Flag a mistake

14 **An applied design challenge starts by defining the**

- A problem
- B solution
- C budget only
- D team name

Understand It with Pulse | Flag a mistake

15 **Testing a prototype helps a designer to find**

- A a team name
- B weaknesses before final building
- C a colour only
- D a price only

Understand It with Pulse | Flag a mistake

16 **Climate change is driven mainly by increased greenhouse gases from human**

A activities

B tides

C volcanoes only

D seasons

Understand It with Pulse | Flag a mistake

17 **Greenhouse gases trap heat in the**

A lithosphere

B hydrosphere

C biosphere only

D atmosphere

Understand It with Pulse | Flag a mistake

18 **Biodiversity means the variety of**

A life in an area

B rocks in an area

C weather in an area

D soils only

Understand It with Pulse | Flag a mistake

19 **Protecting a watershed helps keep drinking water**

A salty

B clean

C warm

D cloudy

Understand It with Pulse | Flag a mistake

20 **An ecosystem includes living things and their**

A weather only

B soil only

C nonliving surroundings

D water only

Understand It with Pulse | Flag a mistake

21 **A food web shows feeding relationships that are more complete than a single food**

A web of spiders

B diagram of rocks

C list of species

D chain

Understand It with Pulse | Flag a mistake

22 **Contemporary chemistry in daily life includes the chemistry of materials such as**

A plastics and medicines

B rocks only

C stars only

D tides only

Understand It with Pulse | Flag a mistake

23 **A fair test changes one variable while keeping other variables**

A random

B constant

C hidden

D ignored

Understand It with Pulse | Flag a mistake

24 **A design solution should be judged against the criteria set in the**

- A team name
- B colour choice
- C problem definition
- D final report only

Understand It with Pulse | Flag a mistake

25 **Recycling aluminium saves energy compared with making aluminium from**

- A recycled cans
- B water
- C air
- D raw ore

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. B
3. C
4. 40
5. D
6. A
7. B
8. C
9. D
10. A
11. B
12. C
13. D
14. A
15. B
16. A
17. D
18. A
19. B
20. C
21. D
22. A
23. B
24. C
25. D

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