



Rhoda Zhang Triumphs at 2024 Collegiate Inventors Competition

Description

Linxuan (Rhoda) Zhang is a doctoral student in the MIT Department of Chemical Engineering. She recently won the 2024 Collegiate Inventors Competition. She won medals in the Graduate and People's Choice categories. Her work is about making food better by keeping nutrients stable to help global health.

This competition celebrates college student inventors. The winners present their projects to important judges from the National Inventors Hall of Fame and the United States Patent and Trademark Office (USPTO).

Zhang has won awards before. She has received the Koch Institute Image Awards three times, and she was a fellow at the MIT Abdul Latif Jameel Water and Food Systems Lab in 2022.

About 2 billion people in the world do not get enough vitamins and minerals. This is especially a problem for children and pregnant women. Zhang and her teammate, Xin Yang, made a special coffee called MOFe Coffee. This coffee has added iron, which helps people get more nutrients easily.

"We want to help improve health for everyone," says Zhang.

Vocabulary List:

1. **Competition** /kəm'petɪʃən/ (noun): An event in which individuals or teams compete for a prize.
2. **Inventors** /ɪn'ventərz/ (noun): People who create new products or ideas.
3. **Nutrients** /'nju:triənts/ (noun): Substances that provide nourishment essential for growth and the maintenance of life.
4. **Stable** /'steɪbəl/ (adjective): Not likely to change or fail; firm and steady.
5. **Project** /'prɒdʒekt/ (noun): A planned undertaking or task typically to achieve something.
6. **Health** /heɪlθ/ (noun): The state of being free from illness or injury; physical and mental well-being.

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What is the regular path followed by a satellite around a celestial body called?

Option: Trajectory



- Option: Orbit
- Option: Rotation
- Option: Thrust

2. What is the process of creating instructions for computers to execute?

- Option: Coding
- Option: Programming
- Option: Debugging
- Option: Algorithms

3. Which term describes something that is firmly established and not likely to change?

- Option: Volatile
- Option: Static
- Option: Dynamic
- Option: Stable

4. What is the rivalry between individuals or groups for a common goal known as?

- Option: Collaboration
- Option: Teamwork
- Option: Competition
- Option: Cooperation

5. What are the substances that provide nourishment essential for the maintenance of life?

- Option: Toxins
- Option: Antigens
- Option: Nutrients
- Option: Pathogens

6. A temporary endeavor undertaken to create a unique product service or result is called a _____.

- Option: Task
- Option: Project
- Option: Goal
- Option: Mission

7. An artificial object placed in orbit around the Earth or another planet is called a _____.

- Option: Meteoroid
- Option: Asteroid
- Option: Comet
- Option: Satellite

8. The action or process of investing money for profit or material result is known as _____.

- Option: Divestment
- Option: Investment



Option: Expenditure

Option: Revenue

9. Distinctive qualities or characteristics of something are referred to as _____.

Option: Facets

Option: Elements

Option: Features

Option: Aspects

10. Medical treatment practices aimed at improving health are known as _____.

Option: Procedures

Option: Therapies

Option: Interventions

Option: Solutions

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. Investing in stocks involves a certain level of _____ due to market fluctuations.

12. Effective teams thrive on mutual _____ and collaboration to achieve common goals.

13. In a dynamic environment new _____ arise for those willing to embrace change.

14. Employees may be entitled to a _____ package when laid off from their jobs.

15. The _____ sector plays a significant role in the economy through business activities and job creation.

16. High-quality _____ enhance the visual appeal of websites and digital content.

17. _____ push the boundaries of innovation and create solutions to existing problems.

18. Maintaining good _____ is crucial for overall well-being and quality of life.

19. Expert _____ provides valuable insights and analysis on various topics and events.

20. Space missions must consider the risks posed by orbital _____ to spacecraft.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)



21. The young artist was hailed as a for her exceptional talent and creativity.
22. Following established safety is essential in preventing accidents and injuries.
23. Artificial intelligence systems can mimic the human brain's functions through .
24. The provided a detailed account of the historical events leading to independence.
25. The school's music program attracted students from across the country.
26. Continuous feedback helps individuals their skills and performance over time.
27. exploit vulnerabilities in computer systems for various purposes including data theft.
28. Investors can buy and sell shares of a company through the market.
29. Tracing one's can provide insights into family history and genetic heritage.
30. Learning to code is a fundamental skill in the field of computer .

Answer

Multiple Choice: 1. Orbit 2. Programming 3. Stable 4. Competition 5. Nutrients 6. Project 7. Satellite
8. Investment 9. Features 10. Therapies

Gap-Fill: 11. Risk 12. Support 13. Opportunities 14. Severance 15. Corporate 16. Graphics 17. Inventors
18. Health 19. Commentary 20. Debris

Matching sentence: 1. Prodigy 2. Guidelines 3. Neural Networks 4. Documentary 5. Talented 6. Improve
7. Hackers 8. Stock 9. Ancestry 10. Programming

CATEGORY

1. Sci/Tech - LEVEL1

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