



Building a science infrastructure to realize our country's goals

Description

The Australian Academy of Science is working on a ten-year plan to show how science can help achieve national goals and benefit Australia on a global scale. The plan, called 'Australian Science, Australia's Future: Science 2035,' will evaluate Australia's science system, its competitiveness, global collaboration, and its impact on the economy, security, and health. President of the Academy, Professor Chennupati Jagadish, emphasized the need for a strong science system to support the country's ambitions such as decarbonization, economic diversification, and defense strengthening. The Academy will gather experts to inform this initiative, with consultations and analysis planned for 2024 and a final report expected in early 2025. The Advisory Panel includes distinguished members from various sectors. This initiative aims to equip decision-makers with the necessary evidence to address capability gaps strategically. Learn more about 'Australian Science, Australia's Future: Science 2035' to stay informed.

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Vocabulary List:



1. **Ambitions** // (noun): Strong desires to achieve something or reach a particular goal.
2. **Decarbonization** // (noun): The process of reducing or eliminating carbon dioxide emissions.
3. **Collaboration** // (noun): Working together with others towards a common goal.
4. **Competitiveness** // (noun): The ability to successfully compete and outperform others.
5. **Diversification** // (noun): The process of expanding or varying activities to reduce risk.
6. **Strengthening** // (verb): Making something stronger or more resilient.

Vocabulary quizzes

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

1. What is a layoff in the context of employment?
Option: A. Hiring new employees
Option: B. Dismissing employees from their jobs
Option: C. Promoting employees to higher positions
Option: D. Providing training to employees
2. What is remote sensing often used for?
Option: A. Communicating in remote areas
Option: B. Monitoring environmental changes
Option: C. Managing office resources
Option: D. Conducting market research
3. What best describes an innovative idea?
Option: A. Conventional and widely accepted
Option: B. Unoriginal and predictable
Option: C. Pushing boundaries and introducing new concepts
Option: D. Outdated and inefficient
4. What is another name for the Aurora Borealis?
Option: A. Southern Lights
Option: B. Northern Lights
Option: C. Polar Aurora
Option: D. Twinkling Skies
5. Which energy source relies on heat from beneath the Earth's surface?
Option: A. Wind energy
Option: B. Geothermal energy
Option: C. Solar power
Option: D. Hydroelectricity



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6. What does collaboration involve?
Option: A. Working independently
Option: B. Competing with others
Option: C. Coordinating efforts with others
Option: D. Avoiding communication
7. What does interdisciplinary research involve?
Option: A. Focusing on a single field of study
Option: B. Integrating knowledge from multiple fields
Option: C. Ignoring other disciplines
Option: D. Following traditional research methods
8. What does it mean when a business undergoes a shutdown?
Option: A. Expanding operations
Option: B. Temporarily closing operations
Option: C. Increasing workforce
Option: D. Acquiring a competitor
9. What do ambitions represent for individuals?
Option: A. Setbacks and failures
Option: B. Lack of motivation
Option: C. Long-term goals and desires
Option: D. Contentment with current status
10. What does decarbonization aim to reduce?
Option: A. Carbon dioxide emissions
Option: B. Renewable energy sources
Option: C. Waste production
Option: D. Deforestation rates

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

11. In times of financial difficulty companies may need to _____ costs to stay afloat.
12. The success of a project often hinges on the quality of _____ made throughout its duration.
13. After the hurricane the community focused on the _____ of vital infrastructure.
14. Constructive _____ is valuable for personal and professional growth.



15. The new policy had a _____ impact on the company's bottom line.
16. The city center comes alive at night with its _____ nightlife and colorful lights.
17. An _____ is an organism that thrives in extreme environmental conditions.
18. Companies often pursue _____ strategies to reduce risk and increase opportunities.
19. The team focused on _____ their connections with key partners in the industry.
20. Continuous learning is essential for personal and professional _____.

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

21. Decarbonization initiatives aim to reduce carbon emissions and combat climate change.
22. Successful projects often result from effective collaboration among team members with diverse skills.
23. In a global economy companies strive to remain competitive by offering innovative products and services.
24. Remote sensing technologies like lidar are used for mapping terrains and studying vegetation.
25. The tech industry thrives on innovative ideas that disrupt traditional ways of thinking.
26. A sudden economic downturn may force businesses to implement a temporary shutdown to reevaluate their strategies.
27. The view from the mountaintop was breathtaking with lush valleys and snow-capped peaks stretching out below.
28. Investing in employee training and development can enhance the organization's competitiveness in the market.
29. The wave of digital transformation has revolutionized how businesses operate and engage with customers.
30. Effective risk assessment is crucial for making informed management decisions and avoiding potential pitfalls.



Answer

Multiple Choice: 1. B. Dismissing employees from their jobs 2. B. Monitoring environmental changes
3. C. Pushing boundaries and introducing new concepts 4. B. Northern Lights 5. B. Geothermal energy
6. C. Coordinating efforts with others 7. B. Integrating knowledge from multiple fields 8. B. Temporarily
closing operations 9. C. Long-term goals and desires 10. A. Carbon dioxide emissions

Gap-Fill: 11. cut 12. management decisions 13. restoration 14. feedback 15. significant 16. vibrant
17. extremophile 18. diversification 19. strengthening 20. advancement

Matching sentence: 1. decarbonization 2. collaboration 3. competitive 4. lidar 5. innovative 6. shutdown
7. breathtaking 8. competitiveness 9. wave 10. assessment

CATEGORY

1. Sci/Tech - LEVEL1

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