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- 1 a Each circle in the diagrams below represents a particle of a substance.
Put a ring around the diagram showing the particles in a solid.

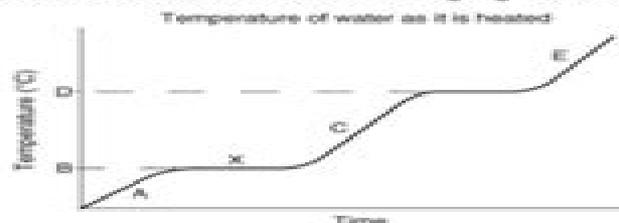


[1 mark]

- b Use the particle model to explain which state of matter can be compressed.

[2 marks]

- 2 The graph shows the temperature of a block of ice changing as it is heated.



Explain why the temperature is not changing at X.

[2 marks]

- 3 This is the formula for calculating density.

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

- a An object has a mass of 60g and a volume of 150cm³.
Calculate the density of the object in g/cm³.

[2 marks]

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Table of Contents Exploring Science 8c Answers

1. Understanding the eBook Exploring Science 8c Answers
 - The Rise of Digital Reading Exploring Science 8c Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Exploring Science 8c Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exploring Science 8c Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exploring Science 8c Answers
 - Personalized Recommendations
 - Exploring Science 8c Answers User Reviews and Ratings
 - Exploring Science 8c Answers and Bestseller Lists
5. Accessing Exploring Science 8c Answers Free and Paid eBooks
 - Exploring Science 8c Answers Public Domain eBooks
 - Exploring Science 8c Answers eBook Subscription Services
 - Exploring Science 8c Answers Budget-Friendly Options
6. Navigating Exploring Science 8c Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Exploring Science 8c Answers Compatibility with Devices
 - Exploring Science 8c Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Exploring Science 8c Answers
 - Highlighting and Note-Taking Exploring Science 8c Answers
 - Interactive Elements Exploring Science 8c Answers
8. Staying Engaged with Exploring Science 8c Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exploring Science 8c Answers
9. Balancing eBooks and Physical Books Exploring Science 8c Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exploring Science 8c Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exploring Science 8c Answers
- Setting Reading Goals Exploring Science 8c Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exploring Science 8c Answers
- Fact-Checking eBook Content of Exploring Science 8c Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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