

## Mcgraw Hill Companies Section Quizzes Answer Keys

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the hills east of scranton s downtown are home to one of the most eclectic and historic neighborhoods in america scranton s aptly named hill section developed over the course of the 19th and 20th centuries from what was originally rugged terrain and dense forest to a socially diverse enclave the area s close proximity to scranton s commercial center and unparalleled views of the lackawanna valley attracted many of scranton s wealthiest and most prominent citizens including the city s namesake scranton family to build palatial mansions in a myriad of architectural styles on its many hills middle class citizens soon followed suit building smaller but equally splendid homes alongside their elite neighbors to serve the hill section s growing population civic leaders organized religious and community institutions and local merchants developed commercial enterprises ultimately the hill section became home to many well known educational and medical centers beautiful parks and cultural establishments in the 21st century the hill section is still a thriving community that continues to preserve its heritage scranton s hill section tells the story of a distinctive neighborhood full of diverse people whose legacies are the true embodiment of american history

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this book provides a comprehensive ready reference of military terms with clear definitions of more than 7 000 terms dictionary of military terms covers both british and american terms as well as international terms and includes military personnel maneuvers equipment vehicles weapons tactics and commands

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spring of the war's first year by the beginning of march un forces shifted strategic focus from defense to offense in april the combination of stabilized fronts and the enemy's failed attacks made conditions ideal for launching combat offensives the brutal nature and strategic significance of these campaigns is described in the book which includes analysis of their profound influence on the remainder of the war william t bowers provides detailed battle narratives based on eyewitness accounts recorded by army historians within days of the operations through his use of personal accounts official records war diaries and combat reports bowers sheds new light on the conflict in korea making this volume a must read for military historians this book is unique in review

the squirrel hill historical society and editor helen wilson explore the fascinating history of one of pittsburgh's historic neighborhoods pittsburgh's squirrel hill neighborhood began on the frontier of western pennsylvania 250 years ago and developed into a vibrant urban community early settler john turner half brother of renegade simon girty survived capture by native americans and experienced firsthand the change from dangerous wilderness to established farming community as squirrel hill developed the landscape dotted with farms and cottages inns and taverns and little shops over time pittsburgh's elite began to build mansions in the area especially after the civil war one of these stately manors even became the pennsylvania female college in 1869 today known as chatham university wealthy landowners henry clay frick and mary schenley bestowed squirrel hill its grand public parks hyman little herman kamin and countless others moved to the hill and made it pittsburgh's premier jewish community with a tight knit cluster of synagogues temples and a thriving

business district today squirrel hill is still one of the most beautiful and exclusive neighborhoods in pittsburgh

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## Is Diamond Brittle? A Comprehensive Look at Diamond's Hardness and Fragility

Diamonds are renowned for their exceptional hardness, often cited as the hardest naturally occurring substance on Earth. This reputation leads many to believe they are indestructible. However, the concepts of hardness and brittleness are distinct. This article explores whether diamonds are brittle, examining the scientific basis of their properties and providing real-world examples to clarify the often-misunderstood nature of this precious gemstone.

**I. Understanding Hardness and Brittleness:**

**Q: What is hardness?** A: Hardness refers to a material's resistance to scratching or indentation. Diamond's high hardness is due to its strong covalent bonds, a strong, highly directional type of bond where carbon atoms share electrons equally, forming a robust three-dimensional tetrahedral structure. This makes it exceptionally resistant to deformation under pressure from other materials. The Mohs hardness scale, a relative measure of scratch resistance, ranks diamond at a perfect 10, the highest possible score.

**Q: What is brittleness?** A: Brittleness describes a material's tendency to fracture or shatter under stress, even if that stress is relatively small compared to its strength in other aspects. A brittle material has little to no plastic deformation before fracture. This means it doesn't bend or deform

significantly before breaking. Instead, it breaks suddenly along cleavage planes. II. Diamond's Brittleness: A Paradox of Strength and Weakness: Q: So, are diamonds brittle? A: Yes, despite their exceptional hardness, diamonds are indeed brittle. While they resist scratching exceptionally well, they are surprisingly susceptible to fracturing under impact or sudden stress. This seemingly paradoxical nature stems from the directional nature of their strong covalent bonds. These bonds are extremely strong within the crystal lattice, leading to high hardness. However, they are comparatively weak in other directions, making them prone to cleavage – fracturing along specific crystallographic planes. Q: How does the crystal structure contribute to brittleness? A: The diamond's cubic crystal structure possesses specific planes of weakness where the bonds are less densely packed. When subjected to sufficient stress, these planes act as preferential fracture paths. The impact doesn't need to be immensely powerful; a sharp blow can cause the crystal to cleave along these planes, resulting in a clean break. This is why diamond cutters utilize controlled cleaving techniques to shape rough diamonds. III. Real-World Examples of Diamond Brittleness: Q: Can you provide examples of diamonds fracturing? A: Several real-world scenarios illustrate diamond's brittleness: Diamond cutting: The process of cutting and polishing diamonds relies heavily on exploiting their brittleness. Skilled cutters use precisely angled blows to cleave the diamond along its natural cleavage planes, rather than trying to grind or saw through it. This controlled fracture is crucial for shaping the rough stone into a gem. Accidental breakage: Diamonds can chip or shatter if dropped or subjected to significant impact. Even a seemingly small fall onto a hard surface can cause catastrophic fracture due to the concentrated stress applied to a specific point. Thermal shock: Rapid temperature changes can cause internal stresses

within the diamond, potentially leading to fracturing. This is especially relevant in industrial applications where diamonds are exposed to extreme temperatures. IV. Industrial Implications of Diamond's Brittleness: Q: How does brittleness affect the industrial use of diamonds? A: While diamond's hardness is invaluable in industrial applications (e.g., cutting tools, polishing agents), its brittleness necessitates careful handling and design considerations. Industrial diamonds are often embedded in a tougher matrix material to improve their toughness and resistance to chipping. Furthermore, the design of diamond-tipped tools aims to minimize stress concentration points to prevent premature fracturing. V. Conclusion: Diamonds possess an intriguing duality: They are exceptionally hard, resisting scratching remarkably well, but are also brittle, readily fracturing under impact or stress. This paradoxical nature is a direct consequence of their strong, yet directionally dependent, covalent bonding within a highly ordered crystal structure. Understanding this distinction is crucial for appreciating the true nature of diamonds and their applications, both in jewelry and industry. FAQs: 1. Q: Can diamonds be scratched? A: While extremely hard, diamonds can be scratched, albeit only by other diamonds. The Mohs scale reflects relative hardness; only materials above diamond on the scale (which currently doesn't exist naturally) can scratch it. 2. Q: How can I protect my diamond jewelry from breakage? A: Avoid impacts, keep it away from abrasive materials, and store it carefully in a protective case. Avoid extreme temperature changes. 3. Q: Are all diamonds equally brittle? A: The brittleness can vary slightly depending on the crystal structure and the presence of internal flaws or inclusions. Diamonds with fewer imperfections are generally less prone to fracturing. 4. Q: What are synthetic diamonds, and are they less brittle? A: Synthetic diamonds are created in laboratories and have a similar structure to natural

diamonds. Their brittleness is comparable to natural diamonds, though the control over their growth can potentially lead to fewer imperfections and thus slightly higher fracture resistance. 5. Q: What is the difference between cleavage and fracture? A: Cleavage refers to the tendency of a material to break along specific crystallographic planes due to weak bonding in those directions. Fracture is a more general term for the separation of a solid into two or more parts. Cleavage is a type of fracture, but not all fractures are cleavage.

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