

1. What are the 4 objectives of this section?
2. How are quartz, salt and sugar alike?
3. Why are quartz, salt and sugar different?
4. What happens to the properties when elements combine to form a compound?
5. What are chemical bonds?
6. How are mixtures and compounds different?
7. What happens to bonds in a chemical reaction?
8. What does a chemical formula show?
9. What is true of the water in a comet?
10. What doesn't a chemical formula show you?
11. What is a chemical structure?
12. What is bond length?
13. What is bond angle?
14. What does a ball-and-stick molecule show?

15. What is a structural formula show?
16. What is a space-filling model?
17. How are the atoms of quartz arranged?
18. Why is quartz hard?
19. Why does quartz have a high melting and boiling point?
20. How is salt like quartz?
21. How is salt different from quartz?
22. Why does table salt have a high melting point?
23. How is sugar different from salt?
24. How does sugar form crystals?
25. Why does sugar melt more easily than salt?
26. What are the forces like between gas molecules?
27. Why is sugar a solid, and hydrogen disulfide a gas?
28. Which attractions are strong and which are weak in water?