

Why are Covalent Bonds Strong?

1. What is a covalent bond?

.....
.....

2. In covalent bonds, are electrons shared, transferred or delocalised?

.....

3. What type of elements do covalent bonds form between?

.....

4. Why do non-metal atoms share electrons to form covalent bonds?

.....
.....
.....
.....

5. What charge does the nucleus have and why?

.....
.....
.....

6. What charge do the shells have and why?

.....
.....
.....

7. What force of attraction is between the protons in the nucleus and the shared pair of electrons in the outer shell?

.....

8. Are covalent bonds strong or weak?

.....

9. Is a lot or a little amount of energy needed to break covalent bonds?

.....

.....

10. Explain your answer to question 9

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....