

## Tasks for students while watching

### *Atom Bond - the atom with the golden electron*

1. List the types of chemical bonds mentioned in the order in which they are described, along with the examples that are discussed for each type.  
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2. Why were Bond and Chlorine unable to consummate their liason at their first try? How were they eventually brought together?  
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3. How many electrons do atoms want in their outermost shell? .....
4. How many covalent bonds can each of the following atoms form:  
F ..... Cl ..... Br ..... O ..... S .....  
N ..... P ..... C ..... Si .....
5. In the polar molicules,  $\text{PCl}_3$ ,  $\text{SCl}_2$ , water and ammonia, which atoms(s) is (are) slightly positive?  
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6. What moves freely around within the structure of metals? .....
7. Why does potassium readily give up an electron to chlorine? What happens to the sizes of chlorine and potassium as ions are formed?  
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8. Why does potassium chloride readily dissolve in water?  
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9. How did agent oxygen get converted to ozone?  
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10. What elements are present in glucose?  
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11. What is Project D? Why did Carbon consider it so important?  
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12. What two substances manage to react with Gold?  
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13. Why are hydrogen bonds important to Project D?  
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