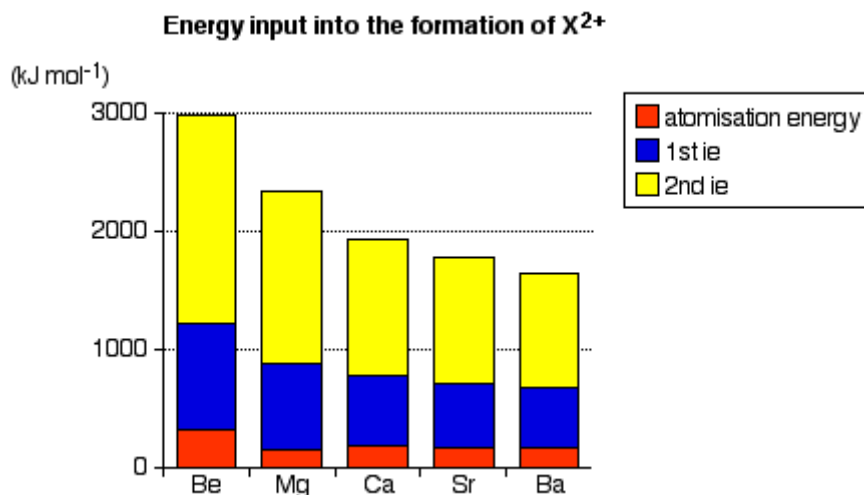


Chemguide – questions

GROUP 2: REACTIONS WITH WATER

- How does the reactivity of the metal with cold water vary from beryllium to barium?
 - Write the equation for the reaction of strontium with cold water.
 - Write the equation for the reaction of magnesium with steam.
 - Describe what you would see if you dropped some pieces of calcium into cold water.
- The bar chart shows the combined effect of atomisation energy and first and second ionisation energies of the Group 2 elements.



- Write the equations for the changes corresponding to
 - the atomisation energy of calcium;
 - the first ionisation energy of calcium;
 - the second ionisation energy of calcium.
- Explain the relationship between this bar chart and the way the reactivity of the elements changes as you go down the group.