

## **STEM Challenge**

The Atomium in Brussels is one of Belgium's most famous landmarks. The Atomium was constructed for the first post-war universal world exhibition (EXPO 58). The nine spheres represent an iron crystal. It consists of 9 identical spheres joined by two types of cylindrical pipes.

**The Atomium is modelled on an iron atom that has been magnified 165 billion times. The diameter of each sphere in the Atomium is 18 metres.**

**Find the radius of each sphere.**

**Find the volume of each sphere, correct to 2 decimal places.**

**Find the combined surface area of all 9 spheres in the Atomium, correct to the nearest  $m^2$  .**

**You've got 15 minutes!**

## **ETG Challenge**

### **Advanced Level**

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**Erasmus+**