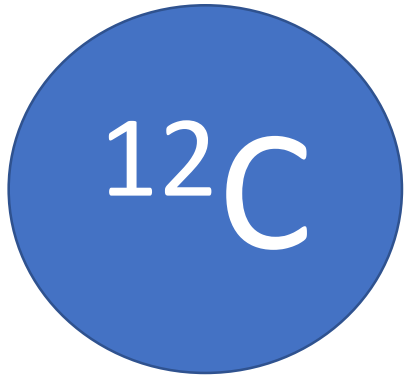




Carbon allotropes: Fullerenes and Nanotubes

IoT Team of
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Students Sheet



A. Fill in the blanks with an appropriate expression. (5 minutes)

1- Buckyball is a _____ molecule with the formula C_{60} .

2- _____ are different structural modifications of an element.

3- _____ is the hardest natural mineral.

Students Sheet

12C

B. Write (T) True or (F) False for the statements below. (5 minutes)

1. Carbon nanotubes are allotropes of carbon. ()
2. Carbon Nanotubes are insulators. ()
3. Carbon nanotubes are 5 times stronger than steel. ()

Students Sheet

12C

C. Fill in the blanks with an appropriate expression. (5 minutes)

1. Spider silk is _____ times as strong as steel.
2. _____ are allotropes of carbon with a cylindrical nanostructure.
3. The electrical conductivity of carbon nanotubes are as _____ as copper.
4. When a graphene sheet is rolled up, a _____ is formed.
5. The types of single walled CNTs are; _____, _____ and _____.