

Name that Nanotube

Name _____

Name _____

Name _____

Name _____

Name _____

Let's start by creating a model of the form of carbon in which you are going to be the experts. Please take the sheet labelled A and roll it so that the pattern that you see is on the outside. Make sure to join the two halves of the letters that you see on either ends of the sheet, so that you can read what the letters say. Ask your teacher for help if you need it.

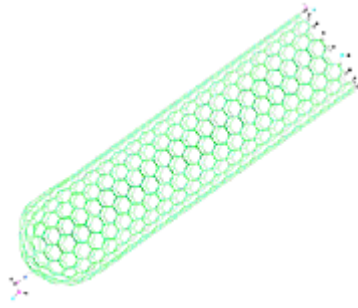
Is this model similar to any that you saw earlier, in the front of the class? Circle one.

 YES NO

If your answer is No, please ask your teacher for Hint 1.

Please fill in the name of your form of carbon in the box below.

Below are some pictures of how your form of carbon looks when they are blown up a million times.



Now let's take a look at the letters on the sheet you just rolled up. What does it say? Now roll up the other two sheets that are labelled B and C, and write down the names that are spelled out when you join the two halves of the letters on either ends in the table below.

The first sheet is named so because of the way the -----(fill up the name or ask for hint 2) shaped Carbon atom rings are placed. Can you see the outline of the object spelled out by the letters in the tube you rolled up? Same is the case with the second sheet that you rolled into a tube. Any pattern that doesn't fit into the first two types is called Chiral.

Take the pencil that you have been given (you can take it home and show your friends) and write down what shape among the three you listed above, it has. (Is it difficult to imagine the pencil as a model similar to what you created out of the sheets?)