



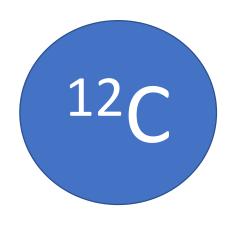


Carbon allotropes: Diamond and Graphite

IoT Team of Valahia University of Targoviste, ROMANIA



Students Sheet



- A. Write (T) True or (F) False for the statements below. (5 minutes)
- () 1- Graphite is a conductor and can be used as the material in the electrodes of an electric arc lamp.
- () 2- Allotropes have different physical properties and the same chemical properties.
- () 3- The atoms forming allotropes have the same kind of bonding in between, but in different manners.
- () 4-Diamond is a hollow cluster of 60 carbon atoms shaped like a soccer ball.



Students Sheet



B. Fill in the gaps in the following phrases. (3 minutes)

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Allot	ropy o	r allotro j	oism is the p	-	_		chemical e physical		
as		of	these eleme		tile	Sairie	priysical	state,	KIIOWII
	most		allotropes	of	the	carbon	are:		_ and
There	e are	also kr ,	own other		allo	tropes ,	of carbo	n, those 	being and



Students Sheet



C. Connect with a line each allotrope of the carbon with the right specified structure. (2 minutes)

Diamond

Layered, planar

Graphite

Tetrahedral

