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the concept of molecules, structure, and bonding, to more complex materials and their properties.

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when confronted  
with familiar  
material. The  
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students to use  
the tools of  
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thinkers: to ask  
questions, to  
apply rules and

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models, and to  
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breaking a  
bond, making a  
new bond,  
adding a  
proton, and  
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- it is

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molecules; the

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those particles

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depicts a  
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emerging from a  
glowing plasma  
of hydrogen and  
carbon, as it  
forms around  
particles of a  
metal catalyst.  
Carbon



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nanotubes are a recently discovered allotrope of carbon. Three other allotropes of carbon - buckyballs, graphite, and diamond - are illustrated at the left, as is

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the molecule  
methane,  $\text{CH}_4$ ,  
from which  
nanotubes and  
buckyballs can  
be made. The  
element carbon  
forms an  
amazing number  
of compounds  
with structures  
that follow  
from simple

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methane, found  
in natural gas,  
to the complex  
macromolecules  
that serve as  
the basis of  
life on our  
planet. The  
study of  
chemistry also  
follows from  
the simple to  
the more

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complex, and  
the strength of  
this text is  
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