

### Lesson 5 - The Alkenes

#### Learning Intentions:

By the end of this lesson, I will be able to...

- ★ State the defining feature of the Alkenes
- ★ State the name endings for the Alkene's
- ★ Name and draw the smallest alkene molecule.
- ★ Give the molecular, structural and full structural formula for the Alkenes
- ★ Give the general formula for the Alkenes.

#### Task 1 - Definition of a homologous series

In the space below, write the definition of a homologous series:

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#### Task 2 - The Alkenes

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### Task 3

What is the minimum number of carbon atoms that must be present in an alkene?

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Full Structural formula:

#### Task 4 - Writing the FS, SS and Molecular Formula of Alkenes

Complete the full structural formula, shortened structural formula and molecular formula of the following alkenes along with the video.

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Now complete the full structural, shortened structural and molecular formula for the remaining four alkenes.

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			

Name		Molecular Formula	
Full Structural Formula			
Shortened Structural Formula			