

Build a Molecule

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

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Learning Objectives



Learning Objectives

We will learn, how to



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We will learn, how to

► **Build molecules from atoms**



Learning Objectives

We will learn, how to

- ▶ **Build molecules from atoms**
- ▶ **Build molecules using a chemical formula**



System Requirement



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► macOS Catalina version 10.15.7



System Requirement

- ▶ **macOS Catalina version 10.15.7**
- ▶ **Google Chrome version 101.0.49**



Prerequisites



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- ▶ Learners should be familiar with topics in basic chemistry



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- ▶ Learners should be familiar with topics in basic chemistry
- ▶ Please use the link below to access the tutorials on PhET Simulations
<https://spoken-tutorial.org>



Link for PhET Simulation



Link for PhET Simulation

- ▶ Please use the given link to download the PhET simulation
<https://phet.colorado.edu/sims/html/build-a-molecule>



PhET Simulation



PhET Simulation

In this tutorial we will use,



PhET Simulation

In this tutorial we will use,

► **Build a Molecule** PhET simulation



Assignment

Use the Playground screen to build,

1. Hydrogen cyanide
2. Chloromethane
3. Nitric oxide
4. Methylsilane
5. Phosphine
6. Hydrogen bromide



Summary

We have learnt, how to

- ▶ **Build molecules from atoms**
- ▶ **Build molecules using a chemical formula**



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



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- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer



Acknowledgements

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funded by the Ministry of Education,
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Thank you

- ▶ This is Radhika Yadav, a FOSSEE summer fellow 2022, IIT Bombay signing off
- ▶ Thanks for joining

