

## Year 9 Chemistry

### Topic: Structure and Bonding part 1

If you're not sure which lessons to do E- mail your teacher

| Lesson | Lesson topic                          | The links below take you to The Oak National Academy Lessons  |
|--------|---------------------------------------|---|
| 1      | Ions                                  | <a href="https://www.loom.com/share/5403054201f240e8aefc0d487b7880f9">https://www.loom.com/share/5403054201f240e8aefc0d487b7880f9</a>   |
| 2      | Ionic Bonding                         | <a href="https://classroom.thenational.academy/lessons/ionic-bonding-introduction-70wk4c/activities/1">https://classroom.thenational.academy/lessons/ionic-bonding-introduction-70wk4c/activities/1</a>       |
| 3      | Further Ionic Bonding                 | <a href="https://classroom.thenational.academy/lessons/further-ionic-bonding-6cu32c/activities/1">https://classroom.thenational.academy/lessons/further-ionic-bonding-6cu32c/activities/1</a>                 |
| 4      | Properties of Ionic Compounds         | <a href="https://classroom.thenational.academy/lessons/properties-of-ionic-compounds-6hj66c/activities/1">https://classroom.thenational.academy/lessons/properties-of-ionic-compounds-6hj66c/activities/1</a> |
| 5      | Covalent bonding                      | <a href="https://classroom.thenational.academy/lessons/covalent-bonding-65hpcc/activities/1">https://classroom.thenational.academy/lessons/covalent-bonding-65hpcc/activities/1</a>                           |
| 6      | Simple covalent molecules             | <a href="https://classroom.thenational.academy/lessons/simple-covalent-molecules-70v66e/activities/1">https://classroom.thenational.academy/lessons/simple-covalent-molecules-70v66e/activities/1</a>         |
| 7      | The Giant Covalent Structures         | <a href="https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc/activities/1">https://classroom.thenational.academy/lessons/the-giant-covalent-structures-c5h3cc/activities/1</a> |
| 8      | Giant covalent structures<br>Graphene | <a href="https://classroom.thenational.academy/lessons/giant-covalent-structures-graphene-68rp6e">https://classroom.thenational.academy/lessons/giant-covalent-structures-graphene-68rp6e</a>                 |
| 9      | Polymers                              | <a href="https://classroom.thenational.academy/lessons/polymers-6rvkgr">https://classroom.thenational.academy/lessons/polymers-6rvkgr</a>   |
| 11     | Review                                | <a href="https://classroom.thenational.academy/lessons/review-part-1-chgpae">https://classroom.thenational.academy/lessons/review-part-1-chgpae</a>   |

This is the link to the BBC Bitesize learner guides for the Structure and Bonding topic. It includes notes, videos and tests.

<https://www.bbc.co.uk/bitesize/topics/zq6h2nb>

This is the link to the free science lessons. From here you will be able to access short video clips on all the content of the Structure and Bonding Topic. You can just select the content you have missed or are missing.

[https://www.youtube.com/watch?v=Ku0oTu8ZWqk&list=PL9IouNCPbCxXmFgiKCM60Sglh-qOG\\_vIE](https://www.youtube.com/watch?v=Ku0oTu8ZWqk&list=PL9IouNCPbCxXmFgiKCM60Sglh-qOG_vIE)

This link will take you to a site with exam questions for you to practise, it also has the mark schemes. It also has mind maps for the topic and flash cards.

<https://www.physicsandmathstutor.com/chemistry-revision/gcse-aqa/bonding-structure-properties-of-matter/>