SYMMETRY

| AOLE: Mathematics and numeracy |
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| 4 Purposes: Ambitious, capable learners |
| WM: Geometry focuses on relationships involving shape, space and position, and measurement focuses on quantifying phenomena in the physical world. | DL: I can explore and consolidate my understanding of the properties of two-dimensional shapes to include the number of sides and symmetry.. |
| LO:I can explore and identify symmetry in photographs, real life and botanical drawingsI can draw symmetrical shapes, patterns and objects accurately |

| Introduction:  | **Discuss:*** what is symmetry?
* lines of symmetry (revise using 2d shapes)
* rotational symmetry
* symmetry in nature: flowers, leaves, bodies of insects, animals and humans

Identify symmetry on our bodiesusing small mirrors, go out into the yard and check symmetry around us. |
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| Main body:  | * look at botanical drawings (resource sheet), check symmetry using mirrors.
* Select a bug or butterfly, draw half and then use mirrors to see whole picture
* if you want to extend, use tracing paper to complete the whole bug .
* https://www.youtube.com/watch?v=CfJBzqDFuvY

Marian Hill is a collage artist who has some great insect posters to print. <https://www.buzzandscuttle.com/printable-resources.html> |
| Extension:  |  |
| Plenary:  | discuss lines of symmetry: when can you have more than one line of symmetry in creatures?(lots in fruit but not many in animals, perhaps jellyfish, anemones, worms??) |
| Resources:  | [Maths in Museums](https://museum.wales/media/35922/maths-in-museums.en.pdf)[10 Free Coloring Pages - Bug Symmetry - Art For Kids Hub -](https://artforkidshub.com/10-free-coloring-pages-bug-symmetry/)Butterfly Grid Symmetry drawing:[https://www.education.com/worksheet/article/symmetry/](https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.education.com%2Fworksheet%2Farticle%2Fsymmetry%2F&data=02%7C01%7CDaviesL1805%40hwbmail.net%7Cfdf998bde4274adb2d7a08d6eb4b3d3f%7C4f3f0e52b734416494091b601d147993%7C0%7C0%7C636955105752990580&sdata=skoJTYQ7juGYbI3Lm8%2B0zmarK7eGvCQVMl%2BYaSxnACo%3D&reserved=0)symmetry drawing apps  |