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 drawings  I 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 bodies  using 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 |