

Girlstart DeSTEMber Program + MathHappens Voronoi Flip Book

A Voronoi flip book shows you what happens when bubbles start small and grow and crash into other growing bubbles. We get interesting forms that relate to the circumcenter of triangles called Voronoi regions. They are found by finding the perpendicular bisector of a triangle. These regions show up on maps, in nature on reptile shells and skin, even in cracked mud and of course bubble soap. You can also use Voronoi regions on maps to show where people can find the nearest polling place or to identify the region where the customers for a fast food restaurant are located.



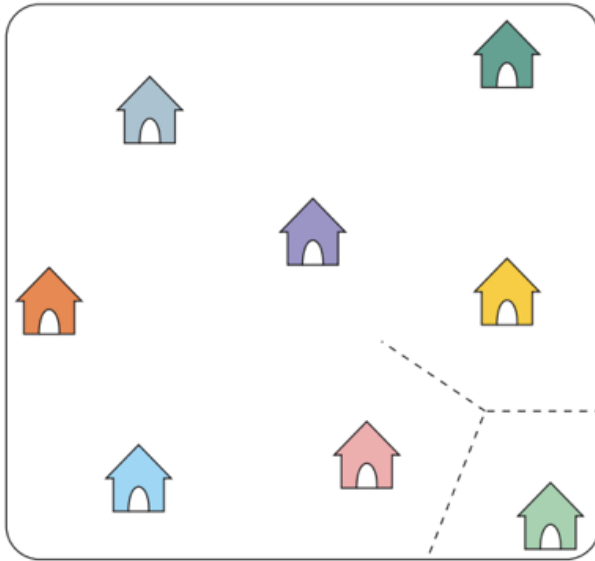
Here's a link to a very short video on the flip book:

<https://youtube.com/shorts/2ICPQckfy8k?feature=share>

Here's a link to a PDF with the [images you need to color and cut out for the pages of your book.](#)

Be careful coloring so that the regions line up in the same colors. Cut out the pages and assemble your flip book.

Voronoi Regions: each house will be the closest shelter from all points in its region.



Draw or imagine pathways exactly halfway between the two nearest houses to make Voronoi regions.

The Voronoi flip book you will make starts with dots and ends with flat faced regions as the circles collide.

