Locus

- Imagine two fixed points on a piece of paper.
  Make them red.
- Imagine any point that is twice as far from one red point as it is from the other red point.
  Make the new point blue.
- Imagine another blue point with the same property.
- Can you see the locus of all blue points?

This is very difficult to achieve using only mental methods, but it might help to imagine some people standing twice as far from one point as they are from another. You could, alternatively, think of counters on a piece of paper.