**Constructing a Regular Pentagon**

For this construction you will need to work on a piece of A4 paper in portrait.

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| **Step 1** – Draw a horizontal line halfway down your paper. Mark a point halfway along the line. | **Step 2** – Draw a circle of radius 6 cm. | **Step 3** – Keeping the compasses at 6 cm, put the compass point on A and mark arcs above and below on the circumference. Repeat at B. |
| **Step 4** – Construct the perpendicular bisector of the line AB. | **Step 5** – Join the two arcs on the right-hand side of the circle. | **Step 6** – Place your compass point on the red point, open your compasses to the blue point and draw an arc downwards. |
| **Step 7** – Place the compass point on the blue point and open your compasses to the second red point. Step this radius around the circle, marking with small arcs. | **Step 8** – Using a ruler, join each point where the arcs cross the circumference to the next. | **Step 9** – Colour your pentagon using pencil crayons or fineliners! |