

Position of the Circumcenter

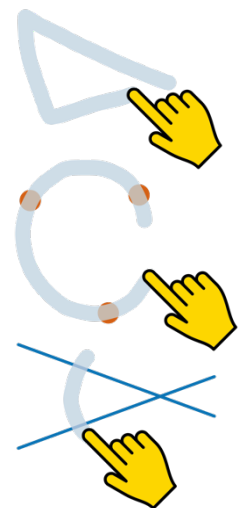
Prerequisites and Objectives


- ▶ The students know that the three perpendicular bisectors meet at a point.
- ▶ They know that this point of intersection is the center of the circumcircle.
- ▶ They know that the circumcenter of a triangle is equidistant from the vertices.
- ▶ They should experimentally explore how the position of the circumcenter depends on the shape of the triangle.

sketchometry

The students should know,

- ▶ how to draw a triangle,
- ▶ how to draw a circle through three given points,
- ▶ how to mark angles,
- ▶ how to measure angles.



Measure >  *Measure* > tap an angle and place the measurement on the board

Further Exploration

- ▶ Construct the circumcenter by using perpendicular bisectors.
- ▶ Modify A or B so that the circumcenter lies on the side \overline{AB} . What about the angle at C ? We get the so-called Thales circle (i.e. angle inscribed in a semicircle).
- ▶ Look up historical references to Thales and ancient (Greek) mathematics.