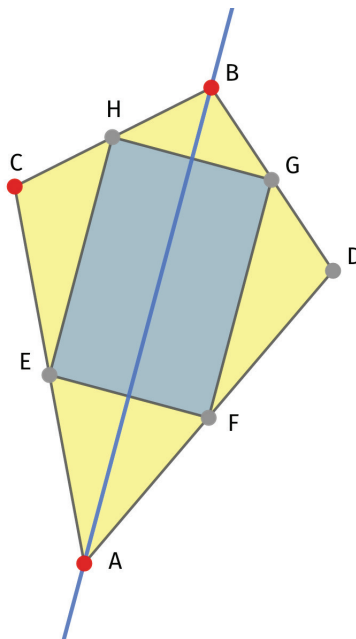


sketchometry

Explore the Midpoint Quadrilateral of a Kite

Construction

- ▶ Construct the midpoints of the sides of the kite ABCD.
- ▶ Connect the midpoints to obtain another quadrilateral EFGH (midpoint quadrilateral).



Explore

- ▶ Drag any of the vertices A, B, C, and D of the kite and observe the midpoint quadrilateral EFGH. Describe its shape!
Write down your conjecture in your study journal and give a proof!
- ▶ Does only the kite have this midpoint property? Investigate other types of quadrilaterals and make conjectures. Try to prove your conjectures in your study journal.