Handout 8

Midpoints of the Sides of a Quadrilateral

Student Activity:

Use Cinderella to construct any quadrilateral. Construct the midpoints of each side. Connect the midpoints of the adjacent sides.

Make a conjecture about the obtained figure. i.e. what is the figure formed by joining the midpoints of the adjacent sides of a quadrilateral?

Use Cinderella objects and tools to investigate the conjecture.

State your conjecture in the form of mathematical theorems.

Can you figure out a mathematical proof for this conjecture?

Can you pose some follow-up problems related to the original problem?