Properties of Trapezoids and Kites

Name _____

Class _____

Problem 1 – Investigating trapezoids

Move to page 1.3. Measure the angles of the trapezoid.

- Make and test conjectures about the angles of a trapezoid.

Construct the diagonals of the trapezoid.

- What conjectures can you make about the lengths of the diagonals?

Move to page 1.4 and confirm that the trapezoid is an isosceles trapezoid.

- Make and test conjectures about isosceles trapezoids.

Problem 2 – Investigating kites

Move to page 2.2. Construct the diagonals. Then measure the angles of the kite.

- Make and test conjectures about kites.

Extension

- On page 3.2, use the coordinates of the vertices to prove that the quadrilateral is a trapezoid. (Think "slope.")

- On page 3.3, find the lengths of the sides of the kite by in the *Calculator* application using the properties of kites.