**Centre 2 – Manipulatives as Thinking Tools (8)**

**Activity A - Exploring Quadrilaterals**

1. Sort and classify the shapes in the baggie. Use a labelled Venn diagram, or write a justification of your classification in your math journal.
2. Find all the quadrilaterals in the baggie.
   1. Sketch or trace and label each one.
   2. Describe each quadrilateral by angles, vertices, sides.
   3. Draw diagonals on your shapes. Use a ruler!
      * What’s special about the diagonals in a rhombus and a parallelogram?
   4. Are there other quadrilaterals not included in your baggie?

**Activity B - Exploring 3D: Faces, Vertices and Edges**

Use polydrons and/or paper nets to construct the five platonic solids (i.e. tetrahedron, cube, octahedron, dodecahedron, icosahedrons), and compare the sum of the numbers of faces and vertices to the number of edges for each solid.