Investigation – Use Euclid the game to demonstrate the parallel and perpendicular postulate.

Parallel Postulate

1. Open geogebra by hitting the apps icon (not by searching it in your internet browser)
2. Select Geometry
3. Select the line tool (third from left).
4. Construct a line by plotting two points A and B.
5. Construct a third point not on the line called C.
6. Select the line tool.
7. Click on point C once.
8. Use your cursor to adjust the slope of the line.
9. Notice how there is exactly one parallel line to the original line.
10. Now select the parallel line tool (4th from the left).
11. Click on point C then line AB.

Perpendicular Postulate

1. Open a new document.
2. Construct a line and a point not on the line.
3. Click the line tool and click on the point not on the line.
4. Use your cursor to adjust the line and notice how there is exactly one line perpendicular to the original line.
5. Select the perpendicular line tool.
6. Click on the point not on the line, then the line and the one perpendicular line should be constructed.