Teacher Notes

G.G.30 Investigate, justify, and apply theorems about the sum of the measures of the angles of a triangle

Lesson Launcher Objectives:

1) Discover that the sum of the angles of a triangle is 180 degrees.

The student will open the APPV ASUM2	AR As the student selects, grabs and drags the vertices of triangle ABC they will be able
A 72° B 49° A+B 122°	to draw a conclusion from their exploration.
C 58°	

- 1) As you dragged vertex A what measure(s) were changing? The measures of the angles and the sum A+B
- 2) As you dragged vertex A what measure(s) remained the same? The sum A+B+C was always 180.
- 3) Press CLEAR and select vertex B to drag. As you dragged vertex B what measures were changing? The measures of the angles and the sum A+B
- 4) As you dragged vertex B what measures remained the same? The sum A+B+C was always 180.
- 5) Press CLEAR and select vertex C to drag. As you dragged vertex C what measures were changing? The measures of the angles and the sum A+B
- 6) As you dragged vertex C what measures remained the same? The sum A+B+C was always 180.
- 7) From your observations and answers to the previous questions what seems to be true regarding the sum of the angles of a triangle? 180 degrees
- 8) Write a statement which summarizes your observations. The sum of the angles of a triangle is 180 degrees.