Consider a collection of n dots (vertices) where each pair of dots is connected by a line segment (edge). This forms the complete graph on n vertices, denoted K_n. For certain values of n, we can partition the edges of K_n into a collection of triangles. The triangles form a Steiner triple system on n points. For other values of n, we can partition the edges into a collection of quadrilaterals. The squares form a 4-cycle system on n points. In this presentation, we will examine which values of n enable us to "glue" the edges of a Steiner triple system on n points together with the edges of a 4-cycle system on n points to produce an embedding of the graph K_n. This embedding has faces shaped like either triangles or quadrilaterals so that no two triangles touch and no two quadrilaterals touch, except at vertices. After establishing the admissible values of n, we will present a construction yielding the desired embedding for an infinite class of values. This is a highly visual and accessible presentation of original research.