



Level 3 Special Project

Space-filling Curves



Prerequisite Concepts	Concept 12
Key Concepts	Concept 14

In the next few studies, we will see that a LEGO[®] artifact in the shape of the letter S can be used to create very interesting space-filling curves called *Wunderlich* curves. Wunderlich curves can be constructed by creating a checkerboard pattern consisting of various S patterns and then connecting these patterns using 1-bit bricks. This study focuses on constructing just one artifact in the shape of the letter S. The artifact shown below can be built using three *put2D* function calls (hint: consider using the EMPTY brick). Before building this artifact it is recommended that you complete all Vitruvia exercises for Concept 14.

