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Shawn J. Chiappetta* (shawn.chiappetta@usioxford.edu), University of Sioux Falls, Sioux Falls, SD 57105. *Creativity, Writing and Mathematics: The FancyPants Strip Pattern Portfolio.*

Students have an easy time identifying which rigid motions a given strip pattern contains, but have difficulty in how to create one of the seven types of strip patterns without overlapping another. This particular project engages students to tackle this problem by constructing their own strip patterns in the context of a creative works portfolio. The project also asks students to establish, as a written explanation, which rigid motions each submission incorporates and, as a last piece, give an explanation of the basic crystallography notation. Examples of student work will be exhibited. (Received June 10, 2013)