

Modeling Exercises 3 (Week 2)

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{multithumb}

This set of modeling exercises will test your use of reference planes, the pattern feature, and the mirror feature.

Exercise 3.2 is a simplified Japanese shoji screen. This model should give you an opportunity to use the Linear Pattern (Insert | Pattern/Mirror menu) feature to duplicate the thin internal frame elements, which are called kumiko. Each "pane" of rice paper should end up being exactly the same size. Note that the rice paper itself isn't included on the orthographic drawings; to (optionally) add it, just do a single large, thin (0.01mm) extrusion behind the kumiko on one side of the screen (refer to the eDrawings file). For an optional extra challenge, construct the model such that each of the parts in the multi-colored image is a separate body. You will need to use the "Merge Result" checkbox as well as possibly a Combine feature to accomplish this.

- Exercise 3.1 (PDF , eDrawing)
- Exercise 3.2 (PDF , eDrawing)
- Exercise 3.3 (PDF , eDrawing)
- Exercise 3.4: Revise Exercise 2.4 , but this time use a Circular Pattern feature to create the ring of columns.