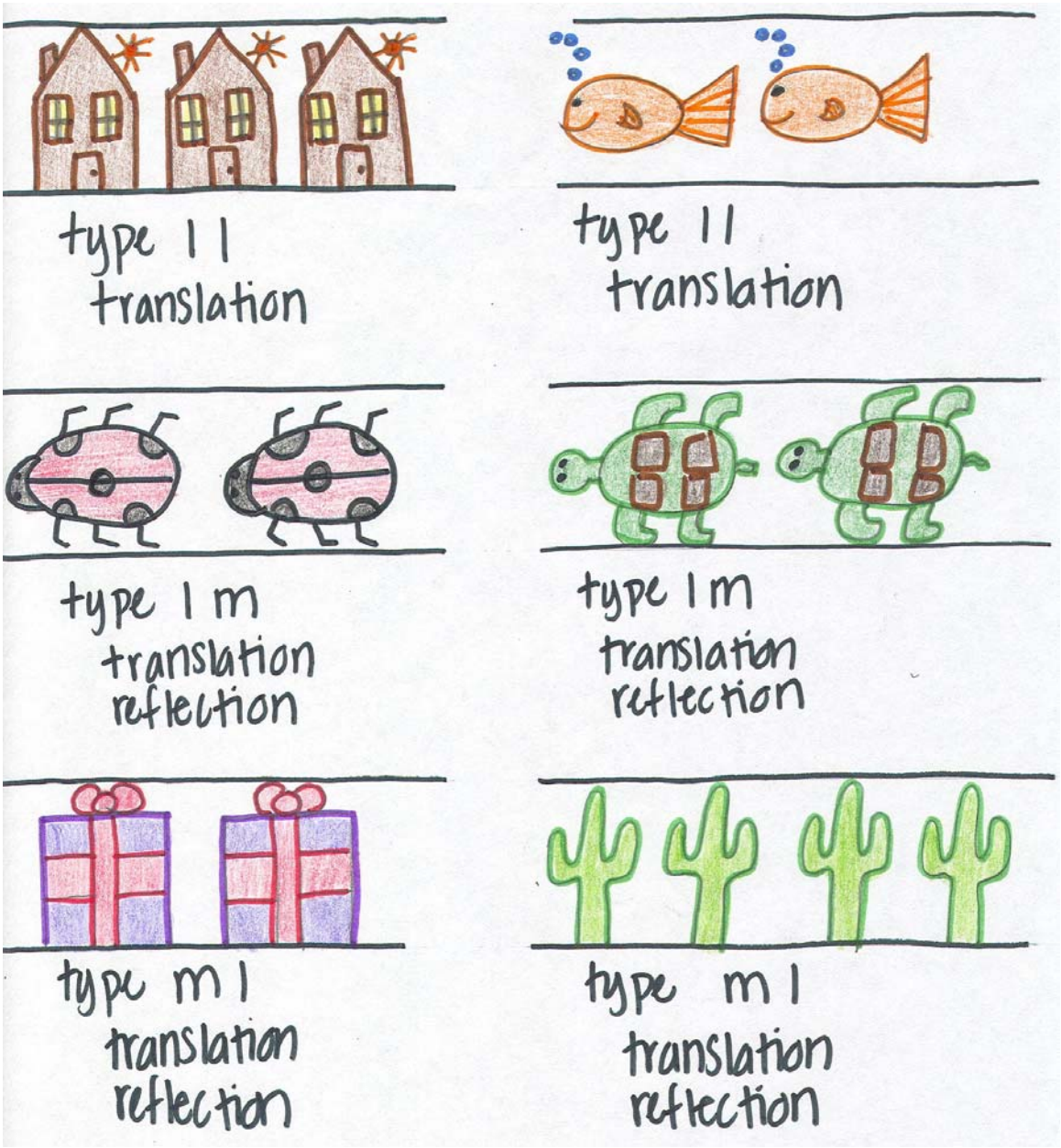
Border Projects

Geometric Structures: A Text for Prospective Elementary Teachers

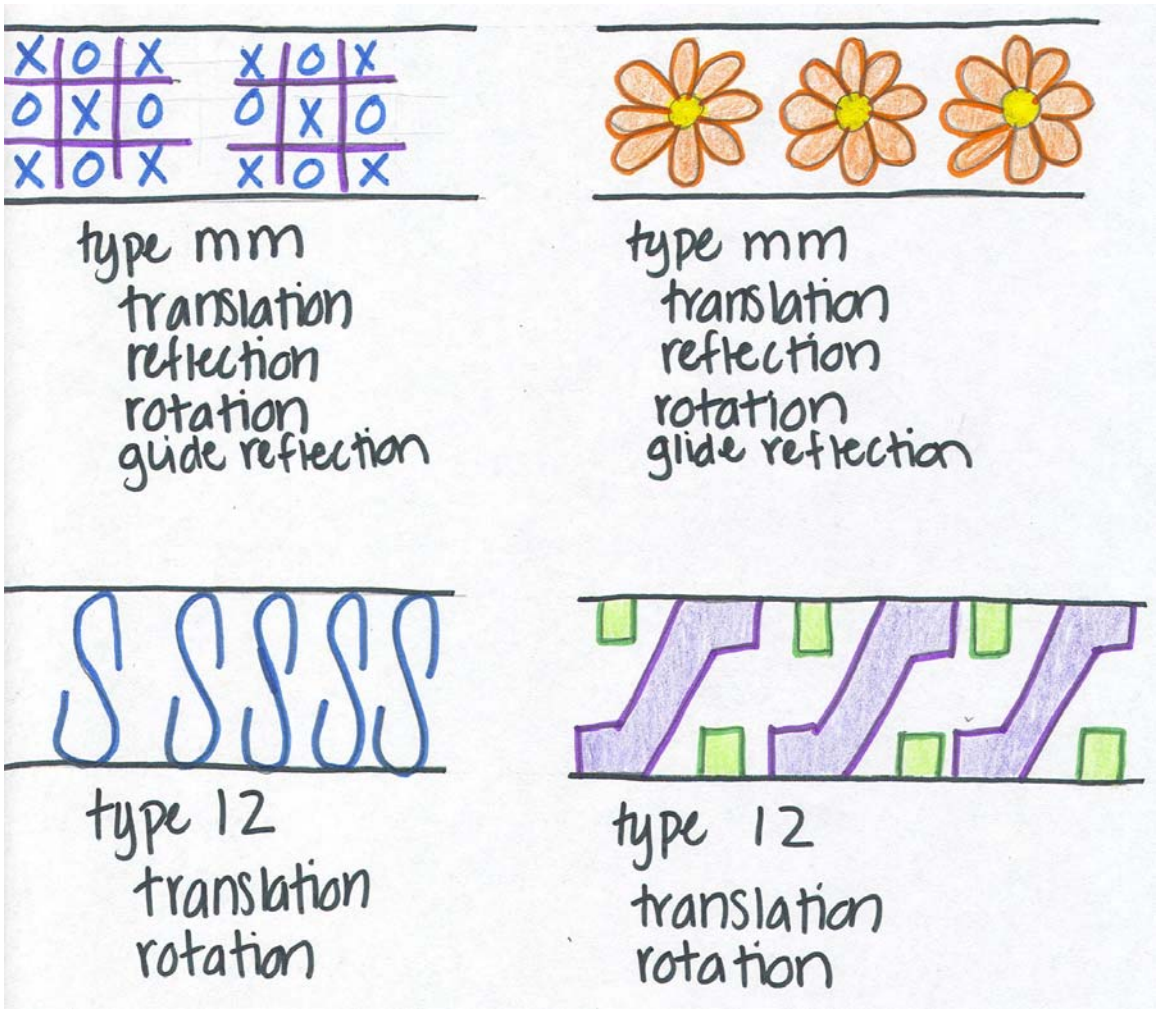
Three examples of students work on the Border Project activity page are included in this document.

Oklahoma State University
Spring 2004

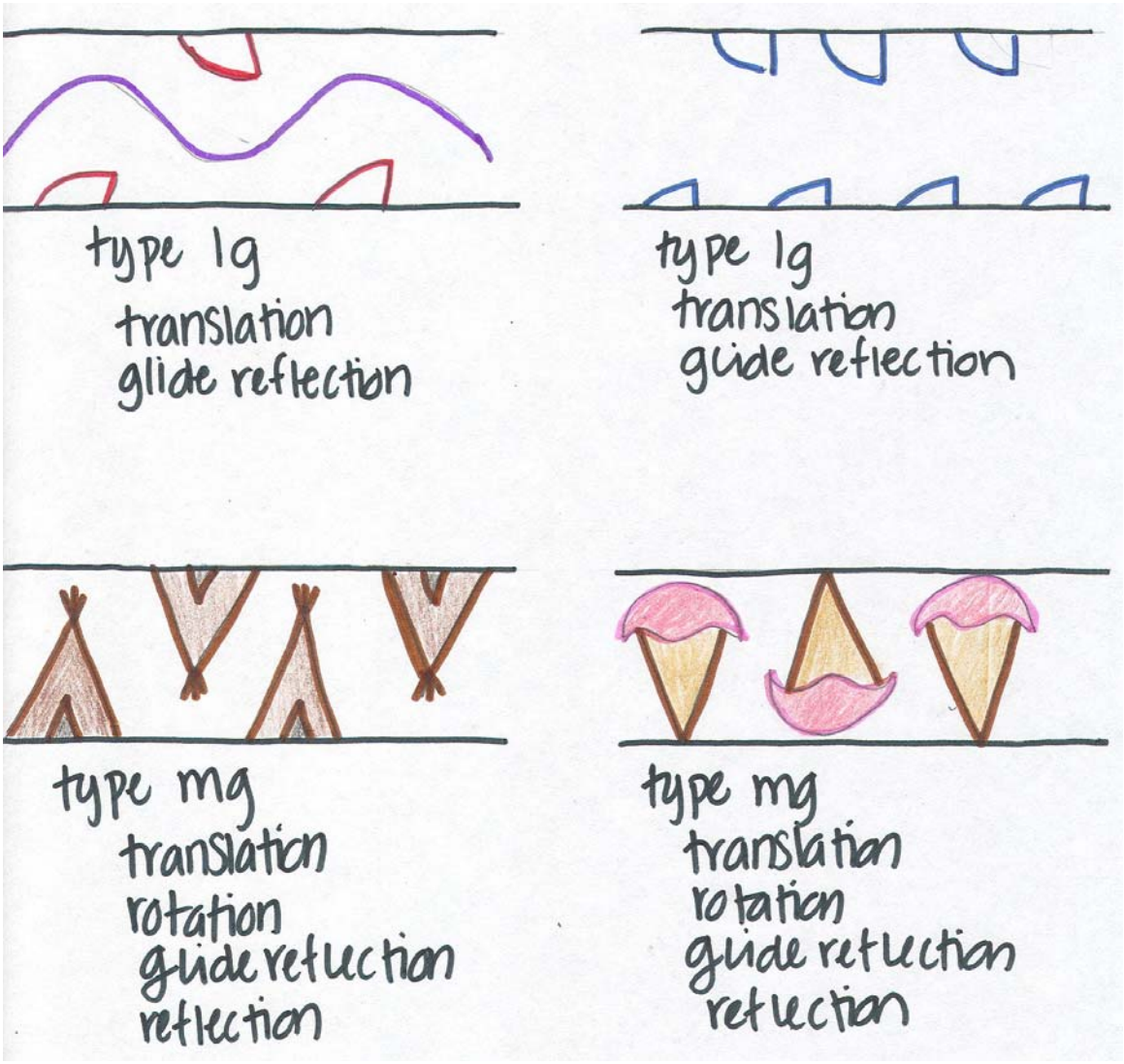
Border Projects -- Spring 2004



Jacqueline McLemore

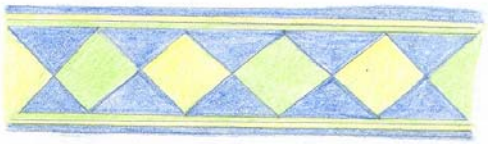


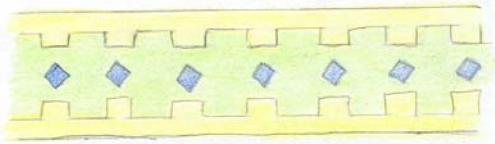
Jacqueline McLemore



Jacqueline McLemore

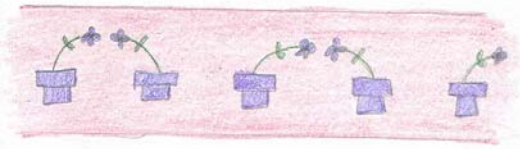
mm





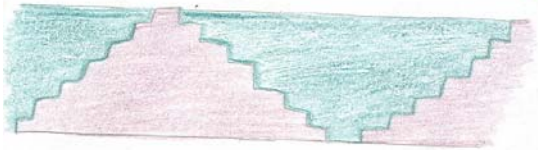
These borders have all 4 kinds of symmetry: translation, centerline and crossline reflection, half turn rotational symmetry, and glide reflection

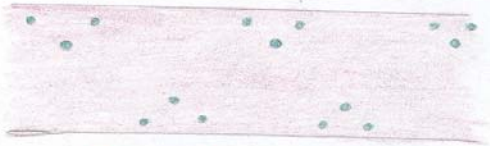
m1



These borders have translational symmetry and crossline reflectional Symmetry

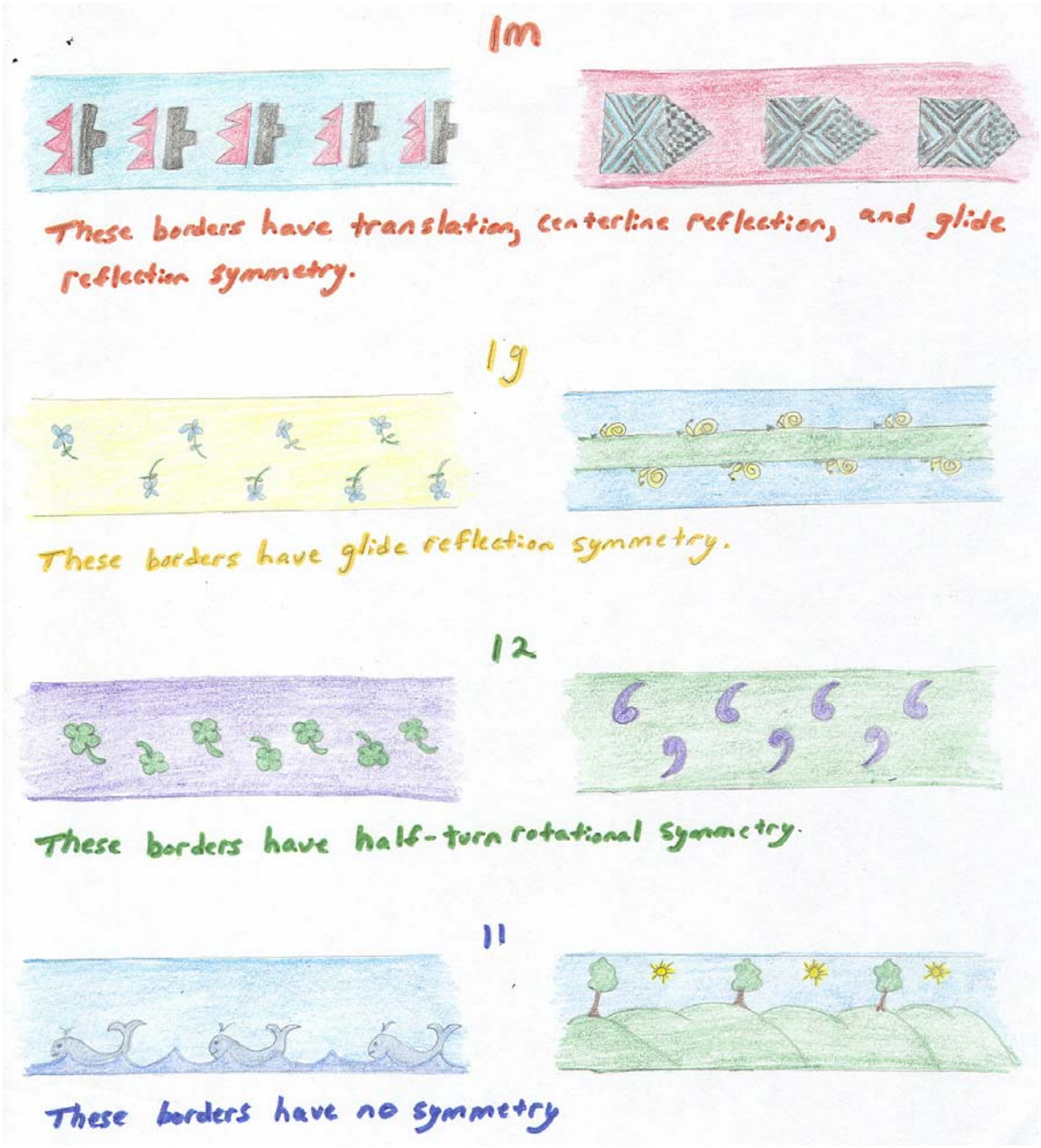
mg





These borders have translation, crossline reflection, half-turn rotation, and glide reflection.

Crystal Davis



Crystal Davis

There are seven types of borders: mm, mg, m1, 1m, 1g, 12, and 11. Let's look at each one and the types of symmetry they have.

mm

Symmetries of mm: translational, reflectional, rotational, and glide reflectional symmetry.

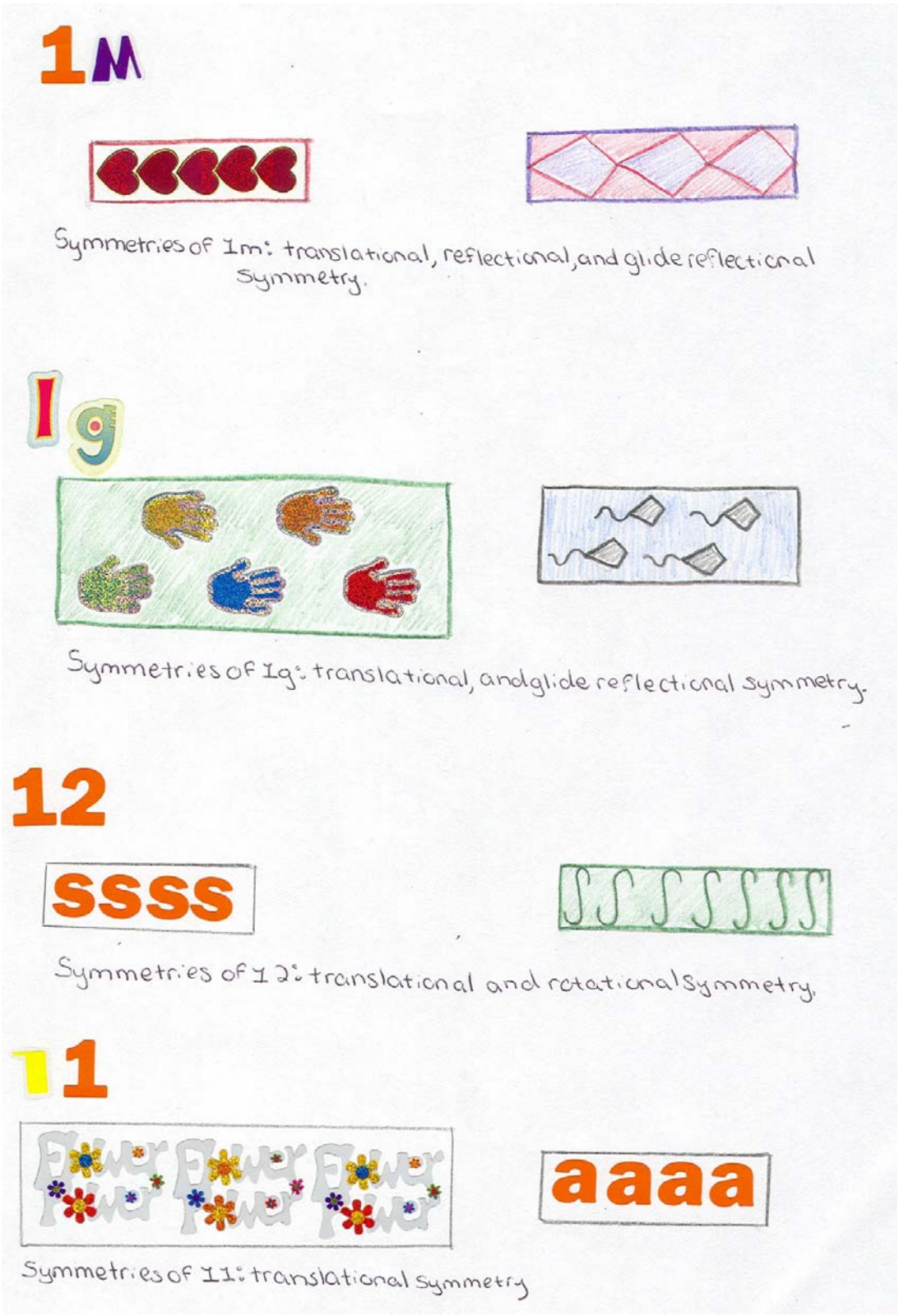
mg

Symmetries of mg: translational, reflectional, rotational, and glide reflectional symmetry.

m1

Symmetries of m1: translational and reflectional symmetry.

Cheryl Jenkins



Cheryl Jenkins