

## Kaleidoscopes, Hubcaps and Mirrors -- Unit Planning Overview 8<sup>th</sup> Grade

| Investigations & Assessments              | Days | Materials for Students   | Materials for Teachers | Transparencies | ACE Questions  | Copies for Students | Miscellaneous  |
|---|------|--|------------------------|----------------|--|---------------------|--|
| 1. Kaleidoscopes: Three Types of Symmetry | 5    | Labsheet/ACE sheets<br>Tracing paper/transparency<br>Compass<br>Angle rulers/protractors<br>Rulers |                        | 1.1-1.4        | 1.1: #4-7, 18a-e<br>1.2: #1-3, 13-17, 18f-g<br>1.3: #25-33<br>1.4: #8-12, 9-24                 |                     | #28-33 have students reproduce drawings with compass and rulers.   |
| 2 Symmetry Transformations                | 2-3  | Labsheets/ACE sheets   |                        | 2.1A-2.4B      | 2.1: #1, 3, 4<br>2.2: #5-6<br>2.3: #7, 10  |                     | Own sources/Labsheets and add. Practice may be good base-extra directions will be needed with emphasis on visual movement not algebraic. |
| Project 1 or 2 p.71-75                    | 2-3  | Labsheets/ACE sheets   |                        |                |  |                     |  |
| 3 Transforming Coordinates                | 6    |  |                        | 3.1A-3.4       | 3.1: #1-3, 9-11, 15<br>3.2: #6-8, 17, 19-21<br>3.3: #4, 12-14, 18, 22-24<br>3.4: #5, 16, 25-27 |                     |  |
| 4 Symmetry and Algebra                    | 4    |  |                        |                |  |                     |  |
| Assessment                                | 4    |  |                        |                |  |                     |  |
|   |      |  |                        |                |  |                     |  |