# Grade 8 Geometry and Spatial Sense Ontario Educational Resources Bank (OERB) Activities 

| Geometric Properties |  |
| :---: | :---: |
| Activity | Description |
| The Big Skate | Build understanding of properties of quadrilaterals by exploring the angle relationships and lines of symmetry of a variety of quadrilaterals. |
| Quadrilateral World | Build understanding of properties of quadrilaterals by using virtual geo-boards and visual protractors to construct diagonals and measure angles within a variety of quadrilaterals and then reflect on similarities and differences. |
| Shape Street | Build understanding of real-world applications of geometry by viewing clips of animated shapes as they describe how they are used in the construction of a family home. |
| Geometric Relationships |  |
| Activity | Description |
| Pythagorean Rocket <br> Resource ID: ELO1415340 | Build understanding of the Pythagorean relation by investigating the relationship between the areas of squares built on the smaller sides of a right triangle with that of the square built on the hypotenuse. |

# Grade 8 Geometry and Spatial Sense Ontario Educational Resources Bank (OERB) Activities 

| Geometric Relationships (continued) |  |
| :---: | :---: |
| Activity | Description |
| Rocket Race Rectangles | Build understanding of geometric relationships by investigating connections between the area, perimeter and corresponding side lengths of similar shapes. |
| Transformations |  |
| Activity | Description |
| Rotating Rotations into Reality | Build understanding of rotations on a Cartesian plane by following an interactive tutorial and then identifying rotations. |
| Translating Translations into Reality | Build understanding of translations on a Cartesian plane by following an interactive tutorial and then identifying translations. |
| Translations and Reflections <br> Resource ID: ELO1411980 | Practise graphing image points on a figure on a Cartesian plane after a defined translation or reflection. |

