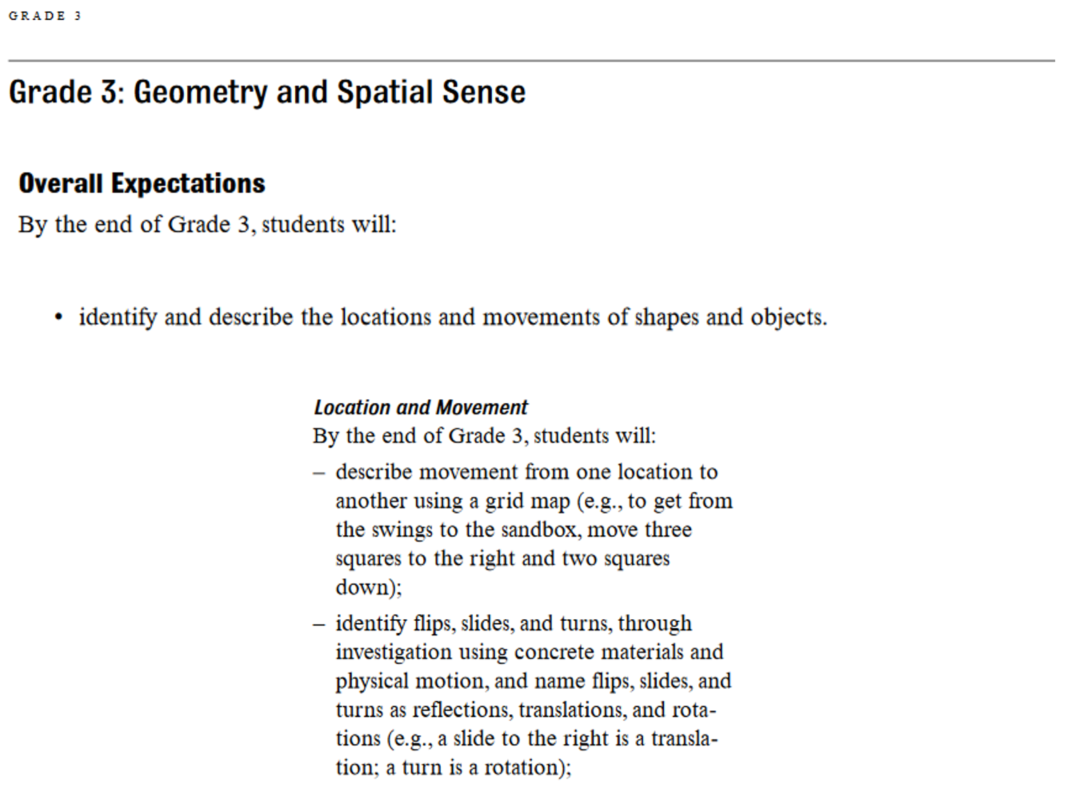
**Movement**

**Transformations:**

**Translations, Rotations, Refelction and Resizing**



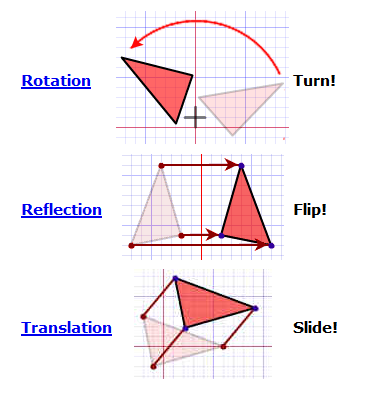
A transformation is when an object, like Scratch the Cat, is moved.

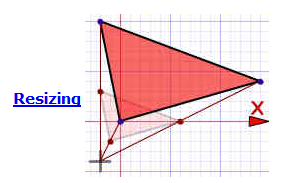
**A Translation (Scratch Slides):**   
When Scratch the Cat moves places, from one point to another.

**A Rotation (Scratch Spins):**  
When Scratch the Cat spins.

**Reflection (Scratch Flips and points in other direction):**When Scratch the Cat flips, and faces the other direction.

**Resizing (Scratch Shrinks or Grows):**  
When Scratch the Cat gets bigger, or smaller.





Can you make Scratch do a dance where he goes through all four transformations?

Scratch should do:

* a translation (a slide)
* a rotation (a spin)
* a reflection (should flip and point in the other direction).
* a resizing (should grow or shrink)

Add a Wait block after each transformation.

See if you can loop this program forever.

See if you can add the sound of your voice, naming each transformation as it occurs.



**A Translation (Scratch Slides):**   
  
When Scratch the Cat moves places, from one point to another.

**A Rotation (Scratch Spins):**  
When Scratch the Cat spins.



**Reflection (Scratch Flips and points in other direction):** When Scratch the Cat flips, and faces the other direction.

**Resizing (Scratch Shrinks):**  
  
When Scratch the Cat gets bigger, or smaller.