**Shapes and shape layers**

Create three separate compositions with different shapes and transformations. Be careful to read all instructions and select the correct part of the layers.

You will learn about Twist, Wiggle Path, Repeater, Snapping, Pre-compose, Trim layers

**Spiral Comp**

1. Open AE
2. New Composition > HDTV 1080 29.98 > Duration 10 seconds
3. Select the rectangle tool with a fill and stroke
4. Draw a small rectangle that is longer than taller/color both fill and stroke
5. Rename shape layer to Spiral
6. Expand the Spiral layer
7. Contents > Add > Twist
8. Expand Twist 1 > Angle 220 > Center -156
9. Expand Rectangle 1 > Stroke 1 > Line join > choose Round join
10. Expand Transform properties
11. Anchor point > scrub numbers until center anchor point is in the center of the spiral
12. Rotation > Time indicator home > Click stopwatch
13. Move Time indicator down a few seconds > Rotation > 335
14. Save

**Wiggle Path**

1. Click on the New Comp on the bottom of Project Panel > same comp settings
2. With the Pen tool create a lightening bolt with fill and no stroke
3. Select Shape layer 1 > Change layer name to Bolt
4. Expand Bolt layer > Add > Wiggles Path
5. Expand Wiggle Paths 1 > Size 15 > Detail 30
6. Change Wiggles/Second > 24
7. Click Motion Blur for the layer and Enable Motion Blur at the top of Timeline
8. Notice that there are no key frames used
9. Save

**Repeater**

1. Studata > GDT 225 > Course Data > Drop ae file > drag to desktop
2. Import Drop ae file
3. Expand Drop in the Project Manager > Double click Drop in Project Panel
4. Expand Drop layer > Contents > Select Shape 1 > Add > Repeater 1

Be sure that Shape 1 was selected before adding Repeater 1

1. Expand Repeater 1 > Change copies to 4
2. Expand Transform: Repeater 1
3. Change the Rotation to 90 degrees
4. Transform: Repeater 1 > change Position to 0,0
5. Anchor Point > 15, 45
6. Press Home > Transform: Shape 1 > Click stopwatch on Rotation
7. Press End > Rotation 2x+0.0
8. Select Drop layer > Contents > Add > Repeater
9. Expand Repeater 1 > Copies to 4
10. Expand Transform: Repeater 1 > Position > 450,0
11. Select Drop layer again > Contents > Repeater
12. Expand the Repeater 2 > Copies 2
13. Transform: Repeater 2 > Position 0,575
14. Click Motion Blur > Enable Motion Blur
15. Save

**Checkerboard**

1. New Comp > Name Checkboard > choose HDTV 1080 24 > Duration 10:00 seconds
2. Layer > New > Solid
3. Solid Settings > Name layer Red > Width and Height 100 px > Square pixels > Choose a dark red color
4. Select Red in Timeline > Press R for rotation > Rotation 45 degrees
5. Selection tool > drag layer up so that only bottom half of the diamond appears in composition
6. Command Y to make a new Solid layer
7. Name White > change color to white
8. Select White > Press R > Rotate 45 degrees
9. Check the Snapping tool in the Tools panel
10. Click near the corner handle on the left side of the White layer and drag it near the lower right edge of the Red layer until it snaps into place. Be careful not to drag the corner itself or you will resize the layer
11. Select both Red and White layers and hide the rotation
12. Edit > Duplicate to copy them
13. Carefully selecting the appropriate side of the selection, drag the duplicate layers down to the left and then right to snap into place abutting the other diamonds
14. Edit > Select all > duplicate repeat the above action
15. Fill in entire screen until it’s a checkboard
16. Select all layers > Layer > Pre-compose > Name Checkerboard

**Render all four exercises into one movie**

1. New Comp > HDTV 1080 29.98 > Duration 12:03
2. Bring the four comps down to Timeline > Spiral > Wiggle Paths > Drop > Checkerboard
3. Trim each comp in Timeline to 3 seconds and stagger each layer so that all are represented in the order that you created each one.
4. Render
5. Save
6. Place both AE file and rendered movie in your studata folder.

Be sure to put AE file, rendered movie and Drop comp in a folder together then place the finished After Effects file into your folder in Studata.