Driving Questions:

* *How do we design a building’s footprint that has radial symmetry and compound shape?*
* *How do we design a tall building to withstand high wind velocity & be structurally solid at the same time?*

Your Task:

You and your team will create a hand-drawn concept for your skyscraper based on your initial research and the strand(s) which will be your primary focus (aesthetics, sustainability, cost, height or a combination of the four strands). The concept will be designed as follows:

* The skyscraper shall be designed so that it tapers vertically.
* There should be at least three or four (3 or 4) sections, depending on the number of members in your group.
* Each group member will create a footprint of one of the sections on the back of his/her instruction page for approval.
* Each section should be different in footprint and scale from the previous section.
* Each footprint will:
  + Contain multiple (3 or more) basic geometric shapes
  + Have dotted lines to clearly identify the basic geometric shapes within the composite
  + Contain a regular, polygonal atrium
  + Exhibit radial symmetry no greater than 72° mapping
  + Exhibit a feasible and logical tapering of the structure per its elevation

Each team member must have their design approved and checked off before continuing to Phase 2-b.

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Group Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Strand Focus: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

My Section Level: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(1 – bottom section, 2 – next higher section, etc.)

Floors in my section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Intended Building (Section) Use:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Geographic Location:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





