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

Fidget Spinner Project Rubric

**INTRO:**

Incredible Toys Inc. has had a mass amount of excess plastic left over from creating their action figures. They do not want to waste their excess material, so they decided to hire you to create a functional toy from their excess material. With the increasing popularity of Fidget Spinners, they want you to create a new version consisting of 4 bearings. They expect you to design and 3-D print a prototype to present during the next research and development company meeting. The meeting will take place a week and a half from today at 9am in conference room C017.

**CONSTRAINTS:**

Autodesk Inventor Drawings:

* Title Page: Text & Isometric View \_\_\_\_/2pts
* Dimensions: Heights, Widths, Depths, Diameters, Radiuses \_\_\_\_/16pts
  + 1 point per dimension
* Correct Dimension Orientations (4 parts) \_\_\_\_/12pts
  + 1 point per correct dimension orientation (height, widths, depths, etc.)
* Exploded View \_\_\_\_/5pts
  + Clean and precise ballooned parts
  + Ballooned parts must correlate with parts list
* Parts list \_\_\_\_/4pts
  + 1 point per part number
  + 1 point for the entire amount of parts column

Functioning 3-D printed Fidget Spinner:

* Needs to make at least 5 consistent revolutions in one spin \_\_\_\_/5pts
* Ball bearings flushed to body and pressed in using arbor press \_\_\_\_/5pts
  + 1 point per flushed bearing
  + 1 point for all of the beings being arbor pressed
* Needs to be able to spin in only one hand \_\_\_\_/1pt

Total\_\_\_\_\_\_/50pts