

## In Class Activity – “What is this?”

Things to consider, questions to ask/answer:

- What does this thing do – what is its function/purpose?
- What features does it have to indicate its function?
- What of the following appear to be primary design criteria: low cost, light weight, high strength, high toughness, high hardness, corrosion resistance, biocompatibility, etc.???
- What material(s) are used?
- What market is it made for: consumer, testing/laboratory, manufacturing, light industry, heavy industry, etc.
- Is it fragile or robust – is it made for abuse?
- How much do you think it costs – does it look expensive or inexpensive?
- How was it made?
- What does an engineer need to understand/know in order to design it?