



# Fab Lab Essentials

## Scanning Tech Investigation



Name	Period	Score
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### Introduction

Have you ever wondered how a product functions? Understanding how a product is made is not easy to determine by simply looking at it. There are many times when a company will investigate current technology in order to find a better solution. There are design principles and elements that all products incorporate into their design.

In this activity your team will act as researchers in a company that produces new technologies. Your task is to visually and functionally test and analyze a 3D scanner to determine its capabilities. You will formulate ideas on the possible uses of the technology and then present your findings using Powerpoint or Prezi to the company executives.

### Equipment

- Laptop computer with 3D Sense Software and internet access
- 3D Sense scanner
- Microsoft Kinect scanner
- Digital Camera
- Fab Lab notebook
- Pencil
- Pen

### Materials

- Copy paper

### Procedure

In a team of three or four, using only the equipment provided, you will each come up with three unique questions about 3D scanners that you want answered and will be documented in your Fab Lab notebook. You will use the internet to answer your questions and you should cite your sources in the Fab Lab notebook.

Once your research is complete you will perform a visual and functional analysis of the 3D scanner/s available and draw detailed full page annotated drawings of the scanners in your Fab Lab notebook.

After completing your drawings you will test the scanners to determine their capabilities and document your findings in the Fab Lab notebook. You need to generate an STL file that could possibly be printed at a later time.

Create a presentation with slides equaling the number of members in your group plus Title and Citation slides using Powerpoint or Prezi. Each member will contribute equally to the creation of the presentation and be able to indicate their portion of the work to the instructor.

