

## 3D Printing Activity 9-12: 3D Printers & Materials

### Part 1 – Exploring 3D Printing Materials:

Use the link below to see Simplify 3D's Ultimate 3D Printing Materials Guide. Click on the different types of materials to learn more about them. Pick **3 different materials** to explore. Write down the name of the material and key features using the space below

Link: [Ultimate 3D Printing Materials Guide](#)

Material 1 Name: \_\_\_\_\_

Description of Material 1:

Top 3 Key Features:

- 1.
- 2.
- 3.

Pros of Using the Material in 3D Printing:

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- 
- 
- 

Cons of Using the Material in 3D Printing:

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- 
-

Material 2 Name: \_\_\_\_\_

Description of Material 2:

Top 3 Key Features:

- 1.
- 2.
- 3.

Pros of Using the Material in 3D Printing:

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Cons of Using the Material in 3D Printing:

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Material 3 Name: \_\_\_\_\_

Description of Material 3:

Top 3 Key Features:

- 1.
- 2.
- 3.

### Pros of Using the Material in 3D Printing:

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### Cons of Using the Material in 3D Printing:

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## **Part 2 – Exploring Different Types of 3D Printers:**

There are many different types of 3D Printers and each one has unique characteristics and functionality that are useful in creating different types of 3D printed parts. Watch each of the video links below to discover more information about different types of 3D Printers. Then, write down 3 key takeaways from each video.

**FDM Printers:** [Fused Deposition Modeling \(FDM\) Technology](#)

### Key Takeaways:

- 1.
- 2.
- 3.

**SLA Printers:** [Introduction to Stereolithography](#)

### Key Takeaways:

- 1.

2.

3.

**SLS Printers:** [Selective Laser Sintering \(SLS\) Technology](#)

Key Takeaways:

1.

2.

3.

**Binder Jetting Printers:** [ExOne Binder Jetting EN \(3D Core & Mold Printing\)](#)

Key Takeaways:

1.

2.

3.