

3D Printing –presentation

(Text for the slides)

1st slide

3D printing is a technology with which we can create a wide variety of items.

2nd slide

What is 3D printing?

With 3 D printing we can create three dimensional objects from digital models.

It all started in the 1980s and ever since it has been developed into a technology used in more and more areas of our lives.

3rd slide

How it works?

In our school we use the FDM method (fused deposition modeling). Our 3D printers were designed and produced in Hungary (We use the thingiverse.com to print pre-designed items).

4th slide

FILAMENT

The material - our workshop uses - is polylactic acid. It is a biologically decomposable, thermal softening material.

5th slide

The filament goes into the printer, it softens inside under 215 degrees centigrade and thus the desired item is printed with it.

6th -7th- 8th slides

The designs are built up layer by layer.

9th slide

What can we make, produce?

From everyday tools, lamps, cookie forms, to souvenirs, and so on. Sky is the limit.

10th-11th-12th slides

Interesting facts – recently they have started to print houses with special concrete 3D printers.

13th slide

Also, there have been attempts to create food with this technique. As you can see the cakes and cookies in this slide.

14th slide

Although we cannot print 3D organs to be operated into humans yet; however, the organs can be printed before the operations, so that the surgeons are able to thoroughly study them before the actual surgery begins.

15th slide

Also in the not so distant future, when we travel or even move to another planet, robots should be sent ahead to create the houses there, using 3D printing technology. And probably we will need the 3D printer to make food with it as well.

16th (LAST) slide

Thank you for your attention.

Let me finish with the words of József Öveges, whose name was given to our school. He said: „What seems to be impossible today, might be realised tomorrow.”