



3D

3D PRINT REPORT

SCHOOL	COUNTRY
Nursery school, primary school and secondary school for the hearing impaired in Valašské Meziříčí	Czech Republic
PROJECT NAME	Mentor
Honey	Jaroslav Krajča
STUDENT NAMES	DATE
Sára Pavelková, Matěj Špurek, Jiří Špatenka	23.10.2023

A type of 3D printer	PRUSA I3 MK3S+
Used material	PLA
Filament diameter	1.75
3D CAD program	Tinkercad
SLICER programs for 3D	PrusaSlicer 2.6.1



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SUBJECT OF MODELING ON THE TOPIC OF TRADITIONAL CRAFT AND CULTURAL HERITAGE

Beekeeping in the Czech Republic is a long-standing tradition, which is characterized by the care of beehives and the collection of honey from natural sources.

Traditional honey production in the Czech Republic includes various types of honey, including linden, flower and honeydew, each with a characteristic taste and aroma depending on the nectar source.

This honey production process is handed down from generation to generation and follows old methods that are still valued today for the quality and authenticity of honey produced in the Czech Republic.

DESCRIBE THE WORK PROCESS

The project was structured into multiple phases:

1. **Choosing a craft** - Students thought about the crafts they come across at home or in their surroundings. The aim was to choose a craft that is associated with the region they themselves come from.
2. **Choosing an object** that defines the craft – The students chose a jar of honey that represents beekeeping and traditional honey production.
3. **3D modeling** – Modeling took place in the Tinkercad program. The modeling itself took the students the most time.
4. **Slicing** – After importing the STL files and setting the properties for printing, the actual splicing of the specific model was without problems. We paid attention mainly to the printing of the supports, so that they can be conveniently removed.
5. **Print** – Print took about 6 hours. Due to the use of stable material, everything went smoothly

DESCRIBE ANY DELAYS AND/OR INCIDENTS

As mentioned above, the students spent the most time creating the 3D model. Slicing and printing went smoothly. The main challenge was removing the supports after printing so that the model was not damaged.