



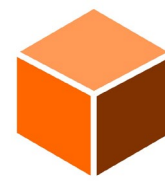
3D

3D PRINT REPORT

SCHOOL	COUNTRY
Nursery school, primary school and secondary school for the hearing impaired in Valašské Meziříčí	Czech Republic
PROJECT NAME	Mentor
Blueprint - Modrotisk	Jaroslav Krajča
STUDENT NAMES	DATE
Kateřina Kimmelová, Julie Chybíková, Nela Šudřichová	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





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

Blue printing, also known as modrotisk, is a traditional Czech craft with rich historical origins. This textile dyeing technique holds great importance within Czech folk culture and plays a significant role in the country's tradition and folklore. Blue printing designs are renowned for their intricate detailing and feature national or regional motifs. These patterns are often closely linked to specific regions within the Czech Republic, each carrying its own unique historical significance.

DESCRIBE THE WORK PROCESS

The project was structured into multiple phases:

- 1. Choosing a craft**– Students were encouraged to reflect on crafts commonly practiced in their homes or immediate surroundings, with the objective of choosing a craft that is closely linked to their respective regions of origin.
- 2. Choosing a subject** that defines the craft– Students carefully chose a subject that embodies the essence of their selected craft. They focused on selecting unique patterns that are indigenous to our region, which would be used for individualized printing.
- 3. 3D modeling** – In the process of 3D modeling, students dedicated considerable time to manually redraw the pattern using the scribble tool available in Tinkercad. The modeling phase itself proved to be the most time-consuming for the students.
- 4. Slicing** – Once the STL files were imported and the printing properties were set, slicing the contact model into individual layers proceeded smoothly without any issues. Interestingly, the model did not require any additional supports during the printing process.
- 5. Printing** – The printing process lasted approximately 6 hours, and thanks to the utilization of a reliable and stable material, everything proceeded seamlessly without any hitches.

DESCRIBE ANY DELAYS AND/OR INCIDENTS

As previously mentioned, the students dedicated the majority of their time to crafting the 3D model. The blueprint patterns were intricate, making manual redraws quite challenging. However, the slicing and printing stages proceeded smoothly without any issues.

