

EARLYPOLY LOG_503_EN

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Formal and/or non-formal educational setting: **Individual play**

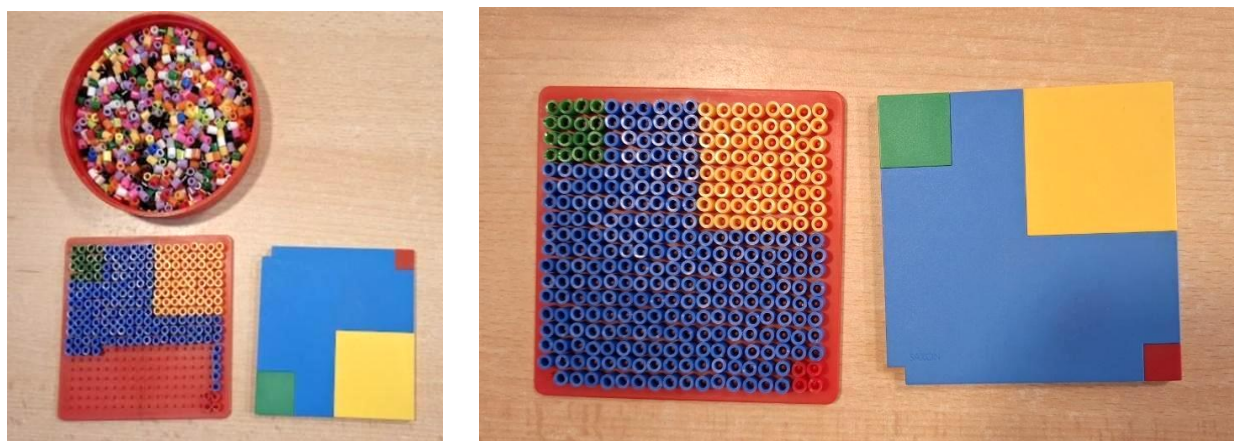
Most relevant age group: **5-7 years old**

Description of the idea / problem / exercise: **A square made of beads**

The square element from the Poly-Universe game can be laid out on a square base using ironing (perler) thermobeads.

With the help of the beads, children can experience how many units are needed to make up the large, small, and tiny fields. Each field is twice the size of the other. The beads make this easy to visualize and count, and children can take measurements (how many do I need to place?). This lays the foundation for mathematical operations such as multiplication and area calculation.

The shape must be placed on the base according to the colors of the selected elements. With the help of an adult, several elements (6) can be glued together to form a three-dimensional shape (cube).



- *Why this exercise is good:* We can lay the foundations for mathematical skills and develop their perception of colors and shapes. They can practice the concepts of rows and columns. Their hand-eye coordination, fine motor skills, patience, and perseverance will improve. They can practice directions (under, above, next to, etc.).
- *Has anyone tried this? If yes, when and where?:* Made by a child of the eldest age group (the final year of kindergarden) during playtime.
- *Notes:* Can be used for individual development and differentiation alike.