

EARLYPOLY NAT_301_EN

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Formal and/or non-formal educational setting: **Non-formal setting**

Most relevant age group: **3-5/6-8 years old**

Description of the idea/problem/exercise: **From tiny grains of sand to the endless ocean**

The infinite connection between Poly-Universe game elements

Location: Spain, beach. A father draws shapes in the sand on the beach, teaching his little girl the basic forms.



This scene gave us the idea for the following exercise:

Starting from a Poly-Universe square, we draw increasingly larger squares in the sand on the beach, with the sizes increasing towards the sea, giving a huge perspective.

From the grains of sand to the endless sea, we follow the orders of magnitude between the infinitely small and the infinitely large by continuously jumping from square to square, and at one point we open our minds to infinity. Participants: 3-4 children.

We talk to children aged 3-8 about distinguishing between the sizes of the successive squares: tiny-small-large-giant-infinite.

Together, we discover that the Poly-Universe square at the beginning of the row consists of tiny-small-big-even bigger elements, and we think about the continuation, then freely draw it in the sand.



BACKGROUND

Find stories and poems for different sizes:

- Iciri-piciri (Teeny tiny) – poem by Zsigmond Móricz
 - A kiscgömböc (Little Roly-poly) – Hungarian folk tale
 - A Kiskondás (The Little Swine herd) – Hungarian folk tale
 - Kis Kolozs meg Nagy Kolozs (Small Kolozs and Big Kolozs) – Hungarian folk tale
 - Az önző óriás (The Selfish Giant) – Oscar Wilde
 - A náthás óriás (The Giant with a Cold) – Sütő Enikő
 - Tenger mese (Sea Tale)...
- *Why this exercise is good:* We can connect our experiences at the beach with tales. Children can create free illustrations for the tales using different sizes until they reach the Poly-Universe, discover the different scales in the game, find the connections, and match elements of the same size to each other. We can use words from the stories to describe the different sizes: tiny; small; large; giant; infinite.
 - *Has anyone tried this? If yes, when and where?:* Partly on the beach
 - *Notes:* (any)