

MATHEMATICAL SYMBOLS OUTDOORS

OBJECTIVE: Experience basic math operations in a more practical way.

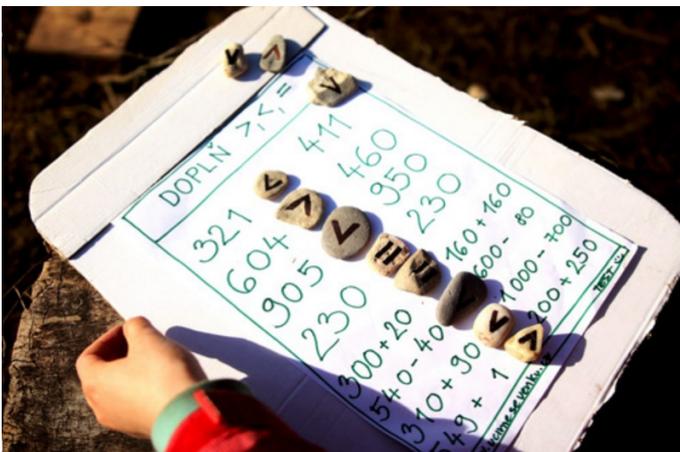
AGE: 1.-4. grade of primary school, **TIME:** 10-20 minutes, **PLACE:** school surroundings, **SEASON:** year-round, **TOOLS:** small stones, chalk, worksheets, marker pens, pencils, writing pads



1. FILL IN THE SIGNS

In the beginning the children can search in the surroundings and find suitable stones (preferably flat pebbles). On the stones we mark basic mathematical symbols (+, -, x, ÷).

Then we write mathematical problems on a sheet of paper, on the ground or we use the worksheets. The signs are left out, the task for the pupils is to fill them in, so the problems are solved correctly.



2. GREATER, LESS, EQUAL

We can use the stones for another mathematical game - comparing numbers.



TIPS: - We can let the children create their own mathematical problems and assign them to the others.

- Writing on stones can be used in many other mathematical activities.

TIC TAC TOE

OBJECTIVE: Test logical thinking and imagination in a classic game transferred outdoors.

AGE: primary school, **TIME:** 20–40 min, **PLACE:** school surroundings where it is possible to find natural products in sufficient amount, **SEASON:** year-round, **TOOLS:** chalk or a checkered cloth



1. PREPARATION

The pupils work in groups, each group prepares two kinds of natural products (about 10 pieces of each kind in size suitable to the playing area we choose). We can draw the playing field on the ground or use a checkered cloth. Egg cartons also work well.

2 TIC TAC TOE

The classic game is now played with the natural products. The groups can decide to play the easier variant with 3 winning elements in a row or try a more difficult variant with 4 or 5 elements in a row.



3 IMAGE TRANSFER

We can use the playing field and the natural products for more activities.

For example the pupils can try to copy a simple "image" using the grid or to create a particular geometrical shape (square, rectangle, triangle).

You can find more photos at <https://ucimesevenku.cz/cisla-venku/piskvorky/>



This material is a translation of the lessons created for the Czech outdoor learning program Učíme se venku.
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