



060 Connected additions

Work on mathematical concepts such as number decomposition, complementary numbers, and an introduction to addition in a manipulative way.

Introduction to the session

Hand out Miniland's The Rocket 10 game to familiarise pupils with its elements and the different game suggestions indicated in the game's instructions.

Playing with Miniland products

Download and print the 060-A "Connected sums" game printout and cut it out to use it during the game (Fig 1). The aim of the game is to pose simple additions that always result in 10. There are many options to the game:

Option A:

- 1 The teacher poses different sums: $1+9$ / $9+1$ / $2+8$ / $8+2$ / $3+7$ / $7+3$ / $4+6$ / $6+4$ / $5+5$, in a visible place (on the blackboard, for example).
- 2 The pupil copies down the first number in the box in the left column and the second number in the box in the right column (Fig.2).
- 3 Next, they have to colour in blue as many circles as are indicated by the number on the left, and in green as many circles as are indicated by the number on the right (Fig. 3).
- 4 Then they have to place on the rocket (toy) as many blue and green pins as they have coloured.
- 5 Then they colour in the same blue and green circles on the rocket at the middle top of the printout.
- 6 We count all the green and blue pins and we write down in the box the final result of the additions, which will always be 10 (Fig 4).

Option B:

- 1 The teacher indicates how many circles have to be coloured in blue in the left column and we write the number corresponding to that quantity in the box just above it.
- 2 We place on the rocket (toy) as many blue pins as we have coloured.
- 3 We fill the remaining holes with green pins.
- 4 We colour the right column of the printout with the same number of green circles as the pins we have put on the rocket, and we write the number in the box above it.
- 5 Complete the central drawing of the rocket by colouring the blue and green circles the same way as the rockets of the columns in the lower area.
- 6 Count the green and blue pins that we have placed on the rocket (toy) and check the coloured circles on the print, the total result is 10.

Option C:

To increase the range of possibilities, the final result could be changed to 8, or 5, 7, 9, ... etc.

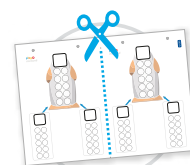


Fig 1



Fig 2

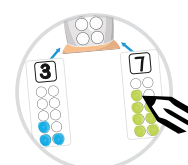


Fig 3

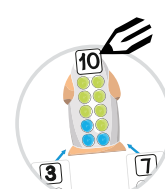


Fig 4



Educational Contents

Mathematics

- Learning numbers 1 to 10.
- Counting agility.
- Decomposition of number 10, complementary numbers.
- Associating number-quantity.
- Numerical quantity conservation principle, i.e. the quantity does not depend on the arrangement of the elements.
- Introduction to addition and subtraction.

ICT

Use in digital environments.



Compatible Miniland material

- Ref. 31781 Rocket 10.

Multilingual education

Vocabulary and verbal expression.



Edad

6-8 años.



Themes

Math and Logic.