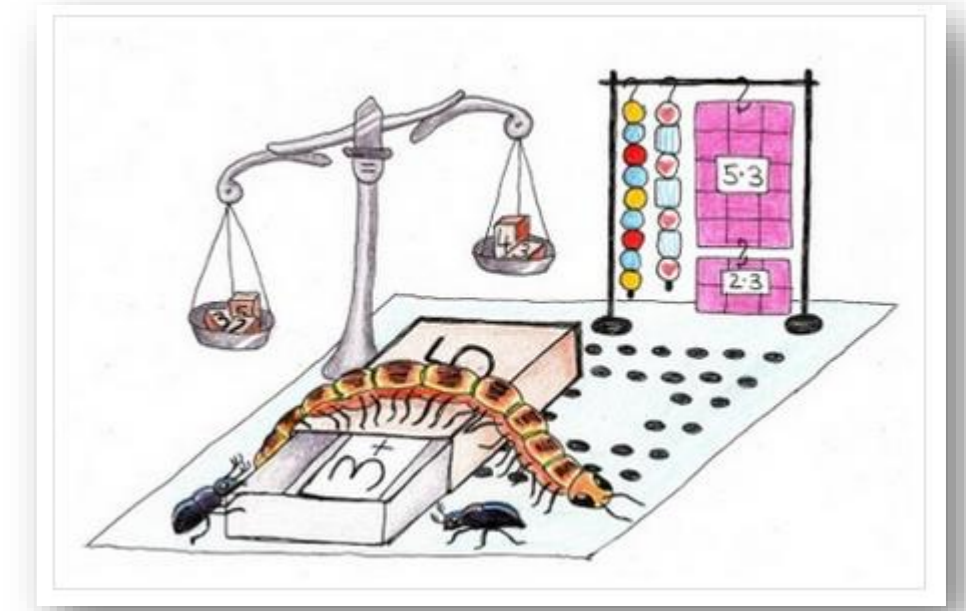


Daniela Wellhausen, Solveg Schlinske, iMINT-Academy Berlin, Germany

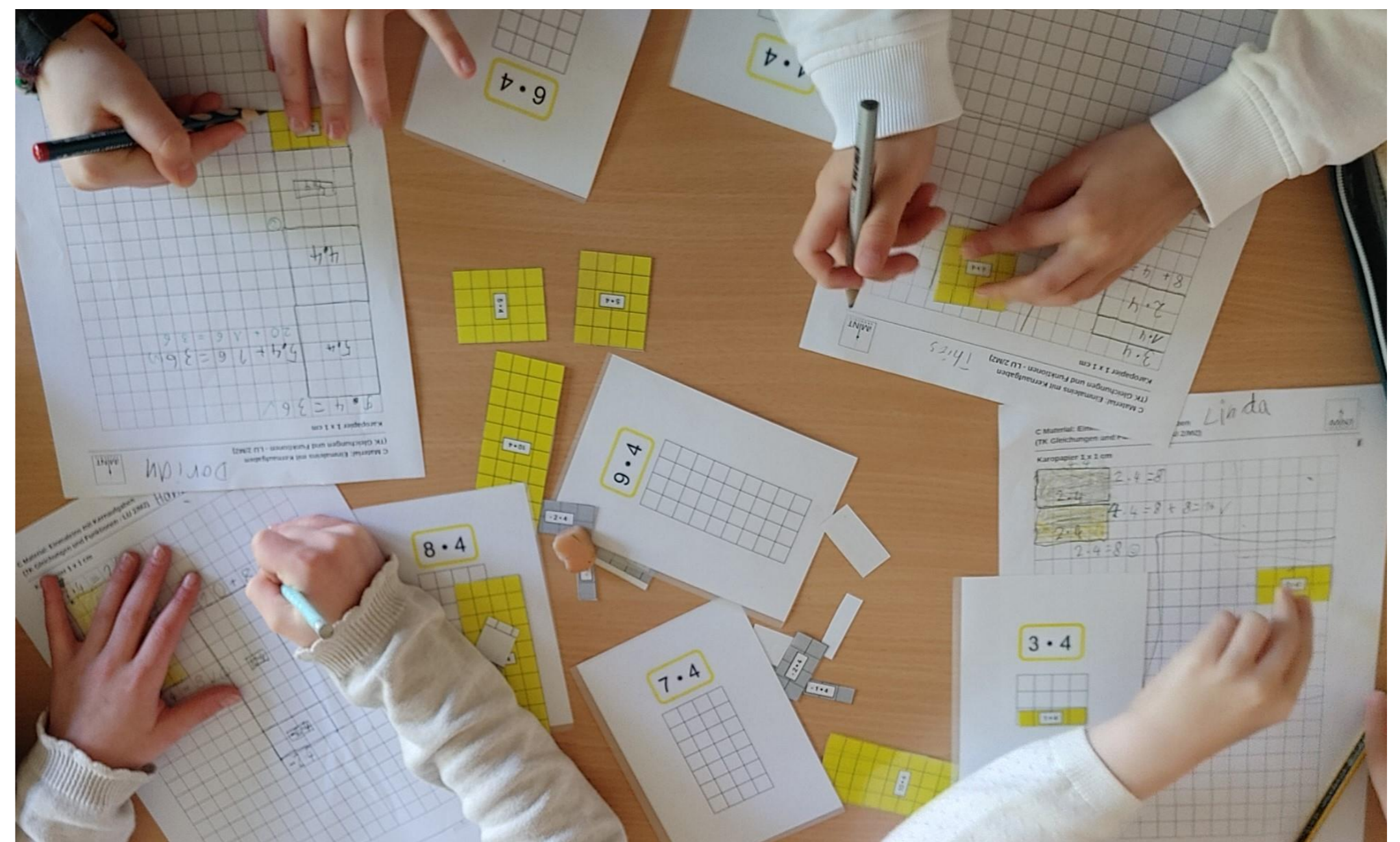
Children discover Algebra

The Theme Box „Equations and Functions“



„Zeichnung TK Gleichungen und Funktionen“, Belinda Anderschitz, CC BY-SA 4.0, https://bildungsserver.berlin-brandenburg.de/imint-groendliche-themenboxen/kuf_07.09.2023/

The **inclusive learning arrangements** of our theme box promote the development of **algebraic thinking** through exploratory learning, even at **primary school age**. The children actively explore equations, variables, terms and patterns. Each of the ten learning arrangements offer children with different learning requirements **motivating, action-oriented** and **challenging tasks** and thus encourage them to **enjoy mathematics**.



„LU Kernaufgaben im Unterricht“, Laura Jahn, Lizenz CC BY-SA 4.0, Poster Science on Stage

Learning Arrangements of the Theme Box „Equations and Functions“

LA 1 Mia's Bead Necklaces Class 1/2 	LA 2 Multiplication and the Rectangle Method Class 2/3 	LA 3 Fact Family Houses Class 2/3 	LA 4 Equal Numbers Class 2 to 4 	LA 5 Number Magic Class 4/5
LA 6 Invertebrates Class 4 to 6 	LA 7 Ciphers Class 4 to 6 	LA 8 Math Magic Tricks Class 5/6 	LA 9 Dot Images Class 4 to 6 	LA 10 Hiding Calculations Class 4 to 6

„Übersicht Learning Arrangements of the theme box, Solveg Schlinske, Lizenz CC BY-SA 4.0, Video Science on Stage

Our learning arrangements have been created as open educational resources (OER).

- Each learning arrangement contains:
- ✓ didactic information with suggestions for use in the classroom
 - ✓ an overview of materials
 - ✓ references to the Berlin curriculum
 - ✓ a detailed chapter on language learning
 - ✓ all copy templates
 - ✓ tip cards for differentiation
 - ✓ answer key

Materials in our Learning Arrangements

4. On page M1 you'll find more math magic tricks. Choose a trick and present it visually using the matchboxes and match sticks. Then „translate“ the trick into expressions with variables. Try out the trick with another pair of classmates. **Task**

Didactic Information

Tip cards

Word cards

- variable
- magic trick

Interactive exercises

Worksheets



Free download
www.imint.de

The learning arrangements support the development of basic concepts of terms, equations and functions that enable successful learning of mathematics at secondary level.



iMINT-Academy Berlin
Team: Theme Boxes