**Mathe sicher können  
Diagnose- und Fördermaterial**

**N5 Addieren & Subtrahieren**

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| Inhalt |  |  |
| Baustein N5A | **Ich kann sicher addieren und subtrahieren und meine Rechenwege erklären**  ◼ Diagnosematerial (1 Seite Standortbestimmung)  ◼ Fördermaterial in drei Fördereinheiten (6 Seiten) | |
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|  | Dieses Material wurde durch Theresa Deutscher, Kathrin Akinwunmi & Christoph Selter konzipiert und hier redaktionell überarbeitet. Es kann unter Creative Commons Lizenz BY-NC-SA (Namensnennung – Nicht Kommerziell – Weitergabe unter gleichen Bedingungen) 4.0 International weiterverwendet werden. |
| **Zitierbar als** | Theresa Deutscher, Kathrin Akinwunmi & Christoph Selter (2023). Mathe sicher können Diagnose- und Förderbausteine N5 Addieren & Subtrahieren. Open Educational Resources unter mathe-sicher-koennen.dzlm.de/nz#n5 |
| **Hinweis zu**  **verwandtem Material** | Das Material ist in Print auch bei Cornelsen kaufbar, wurde hier jedoch leicht weiterentwickelt. Zu dem Diagnose- und Fördermaterial sind auch Handreichungen verfügbar sowie Erklärvideos und Fortbildungsangebote, alles zu finden unter mathe-sicher-koennen.dzlm.de. |

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| A | Kann ich sicher addieren und subtrahieren  und meine Rechenwege erklären? | |
| 1 | Addieren | |
|  | Rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 45 | + | 23 | = |  | |  | + |  | = |  | |  | + |  | = |  | | b) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 17 | + | 58 | = |  | |  |  |  |  |  | |  |  |  |  |  | | | c) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 218 | + | 631 | = |  | |  |  |  |  |  | |  |  |  |  |  | | d) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 185 | + | 267 | = |  | |  |  |  |  |  | |  |  |  |  |  | | |  |
| 2 | Subtrahieren | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 89 | – | 75 | = |  | |  | + |  | = |  | |  | + |  | = |  |   Warum darfst du so rechnen? | b) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 63 | – | 27 | = |  | |  |  |  |  |  | |  |  |  |  |  | | | c) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 692 | – | 542 | = |  | |  |  |  |  |  | |  |  |  |  |  | | d) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 921 | – | 457 | = |  | |  |  |  |  |  | |  |  |  |  |  | | |  |
| 3 | Addieren und Subtrahieren | |
|  | Welche Plus- und welche Minus-Aufgabe passen zu dem Zahlenstrahl?  Schreibe auf und rechne aus.     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | |  |

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| A | Ich kann sicher addieren und subtrahieren  und meine Rechenwege erklären | |
| 1 | Zahlen mit Material darstellen | |
| 1.1 | Schrittweises Addieren | |
|  | a)  Ich springe erst  die Zehner und  dann die Einer vor.  Tara | Tara zeichnet die Aufgabe 62 + 34 am Zahlenstrahl. Ihre Rechenschritte notiert sie.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 62 | + | 34 | = |  | | 62 | + | 30 | = |  | | 92 | + |  | = |  |  1. Beschrifte den Zahlenstrahl und rechne weiter aus. 2. Markiere mit Farben, was in der Zeichnung und Rechnung gleich ist. Erkläre Taras Rechenweg. |
|  | b) | Wie rechnet Tim die Aufgabe 62 + 34? Notiere seine Rechenschritte.  Was macht er anders als Tara? Schreibe seine Idee in die Sprechblase.  Tim   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 62 | + | 34 | = |  | | 62 | + |  | = |  | |  | + |  | = |  | |
|  | c) | Zeichne und rechne die Aufgabe 368 + 179 auf zwei Wegen:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (1) | Rechne so wie Tara. | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 368 | + | 179 | = |  | |  |  |  |  |  | |  |  |  |  |  | | | (2) | Rechne so wie Tim. | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 368 | + | 179 | = |  | |  |  |  |  |  | |  |  |  |  |  | | |
|  | d) | Finde die passenden Plus-Aufgaben zu den Zahlenstrahlen. Rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (1) |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | | (2) |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | |
| 1.2 | Stellenweise Addieren | |
|  | a) | Dilara rechnet die Aufgabe 24 + 35.  Sie zeichnet die Aufgabe und schreibt ihre Rechenschritte daneben.  Dilara   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 24 | + | 35 | = |  | | 20 | + | 30 | = |  | |  | + |  | = |  |   Ich addiere erst die Zehner  und dann die Einer. Dann  rechne ich alles zusammen.   1. Erkläre Dilaras Rechenschritte mit Hilfe der Zeichnung und schreibe sie auf. 2. Wie erhältst du das Endergebnis? Erkläre mit Hilfe der Zeichnung und der Rechnung. |
|  | b) | Welche Aufgabe wird hier gerechnet?  Erkläre die Rechenschritte mit Hilfe der Zeichnung. Rechne aus.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 24 | + | 35 | = |  | | 20 | + | 30 | = |  | |  | + |  | = |  | |  | + |  | = |  | |
|  | c) | Zeichne und rechne die Aufgaben 62 + 56 und 123 + 118.  Denke dir auch selbst eine dritte und vierte Aufgabe aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (1) | Zeichnung: | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 62 | + | 56 | = |  | |  |  |  |  |  | |  |  |  |  |  | | | (2) | Zeichnung: | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 123 | + | 118 | = |  | |  |  |  |  |  | |  |  |  |  |  | | | (3) | Zeichnung: | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | | (4) | Zeichnung: | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | |
| 2 | Subtrahieren | |
| 2.1 | Schrittweises Subtrahieren | |
|  | a) | Tara rechnet die Aufgabe 94 – 78 am Zahlenstrahl.  Erkläre Taras Rechenschritte mit Hilfe der Zeichnung. Rechne weiter aus.  Tara  Ich springe erst  die Zehner und dann die Einer vor.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 94 | – | 78 | = |  | | 94 | – | 70 | = | 24 | | 94 | – |  | = |  | |
|  | b) | Wie rechnet Tim die Aufgabe 62 + 34? Notiere seine Rechenschritte.  Was macht er anders als Tara? Schreibe seine Idee in die Sprechblase.  Tim   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 94 | – | 78 | = |  | | 94 | – |  | = |  | |  | – |  | = |  | |
| 2.2 | Ergänzen | |
|  | Maurice löst die Aufgabe 94 – 78 am Zahlenstrahl durch Ergänzen.  Maurice  Ich ergänze von  78 bis 80. Dann  ergänze ich noch bis 94.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 94 | – | 78 | = |  | | 78 | + | 2 | = | 24 | | 80 | + |  | = |  | | |
|  | a) | Rechne weiter aus. Markiere das Endergebnis am Zahlenstrahl und  in der Rechnung. Erkläre den Rechenweg. |
|  | b) | Kreuze vier Aufgaben an, die sich leicht durch Ergänzen lösen lassen.  Erkläre, warum sie sich eignen und rechne sie aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | 1002 – 998  1012 – 754  467 – 399  73 – 64  834 – 576  653 – 644 | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | | |

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| **2.3** | **Stellenweises Subtrahieren** | |
|  | **a)** | Dilara rechnet die Aufgabe 46 – 32.  Erkläre Dilaras Rechenschritte mit Hilfe der Zeichnung. Rechne weiter aus.    Dilara  Ich subtrahiere  erst die Zehner und dann die Einer.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 46 | – | 32 | = |  | | 40 | – | 30 | = |  | |  | – |  | = |  | |
|  | **b)** | Dilara und Leonie überlegen, wie sie mit den Zwischenergebnissen  weiterrechnen müssen.  Dilara  Ich subtrahiere  erst die Zehner und dann die Einer.  Leonie  Das ist doch eine Minus-Aufgabe. Die Zwischenergebnisse müssen subtrahiert werden.  Wer hat recht?  Erkläre mit Hilfe der Zeichnung oben, wie du auf das Endergebnis kommst. |
|  | **c)** | Welche Aufgabe wird hier gerechnet?  Erkläre die Rechenschritte mit Hilfe der Zeichnung. Rechne aus.     |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  | – |  | = |  | |  | – |  | = |  | |  | – |  | = |  | |
| 2.4 | Stellenweises Subtrahieren, aber aufgepasst! | |
|  | Tim rechnet die Aufgabe 42 – 16.  Tim   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 42 | – | 16 | = | 30 | – | 4 | = | 26 | | 40 | – | 10 |  |  |  |  |  |  | | 2 | – | 6 |  |  |  |  |  |  |     Bei den Einern kann ich sofort 2 subtrahieren.  Dann muss ich noch 4 subtrahieren. | |
|  | a) | Was meint Tim? Erkläre mit Hilfe der Zeichnung und der Rechnung. |
|  | b) | Wie kommt Tim auf das Endergebnis?  Erkläre mit Hilfe der Zeichnung und der Rechnung. |
|  | c) | Zeichne und rechne die Aufgaben wie Tim in deinem Heft.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | (1) | 72 – 46 | (3) | 57 – 39 | (5) | 234 – 126 | | (2) | 35 – 18 | (4) | 81 – 65 | (6) | 352 – 237 | |

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| 3 | Addieren und Subtrahieren |
| 3.1 | Schrittweises Addieren und Subtrahieren |
|  | Immer eine Plus- und eine Minus-Aufgabe passen zu den Zahlenstrahlen.  Notiere die Rechnungen und die fehlenden Zahlen an den Zahlenstrahlen.  Erfinde als sechste Aufgabe einen eigenen Zahlenstrahl. |
|  | |  |  |  | | --- | --- | --- | | Plus-Aufgabe | Zahlenstrahl | Minus-Aufgabe | | (1)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 647 | + | 287 | = | 934 | | 647 | + | 7 | = | 654 | | 654 | + | 80 | = | 734 | | 734 | + | 200 | = | 934 | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 934 | – | 287 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (2)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 37 | + | 129 | = | 166 | | 37 | + | 9 | = | ̳ 46 | | 46 | + | 20 | = | 66 | | 66 | + | 100 | = | 166 | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (3)   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (5)   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 110 | + | 739 | = | 849 | | 110 | + | 700 | = | 810 | | 810 | + | 30 | = | 840 | | 840 | + | 9 | = | 849 | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (5)   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1089 | – | 92 | = | 997 | |  | – | 89 |  | 1000 | |  | – | 3 |  | 997 | |  |  |  |  |  | | | (5)   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | |

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| 3.2 | Stellenweises Addieren und Subtrahieren | |
|  | a) | Rechne aus. Was fällt dir auf? Markiere deine Entdeckungen mit verschiedenen Farben. Setze die Päckchen fort.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (1) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 264 | + | 152 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 364 | + | 162 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 464 | + | 172 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (2) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 466 | – | 254 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 477 | – | 265 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 488 | – | 276 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (3) | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 757 | – | 143 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 757 | – | 254 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 757 | – | 365 | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | |
|  | b) | Schreibe zu einem Päckchen aus **a)** deine Entdeckungen auf.  Kreuze an. Ich beschreibe meine Entdeckungen zu: □ (1) □ (2) □ (3)   |  | | --- | |  | |
|  | c) | Erfinde selbst solche Entdeckungspäckchen.  Schreibe jeweils nur die ersten zwei Aufgaben auf. Rechne sie aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (1) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | (2) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | – |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | + |  | = |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | |
|  | d) | Tauscht eure Entdeckungspäckchen untereinander.  Schreibt die passende dritte Aufgabe auf. Rechnet sie aus. |