

KLETT LERNTRAINING

RIGHTS CATALOGUE

Study aids for the whole school career



Editorial | Content



Find more information on: www.pons.de/b2b

Dear Partners and Colleagues,

Education is the key to a better future, which is why parents often invest so much into their children's education. Our goal is to help students fill in any gaps in their learning, to assist them while expanding and reinforcing their skills and knowledge through appropriate training methods. To accomplish this, Klett Lerntraining develops reference and practice materials for students of all age groups – from kindergarden to K12.

The need for quality education and training material is equally present in every country around the globe. Learning is not restricted to the classroom and both students and parents achieve the best possible education by using our learning materials.

We invite you to experience the diversity of our program for your publishing house.

Simply send us an e-mail and request a book that interests you as a free sample or visit us at the most important bookfairs such as Bologna, London, Beijing and Frankfurt. Please see the dates on the backcover. We will be pleased to see you there.

Best regards,

Ulrike Keppler

Head of Foreign Rights and Co-Productions

Content

KINDERGARDEN

PRE-SCHOOL

FIRST READING

PRIMARY

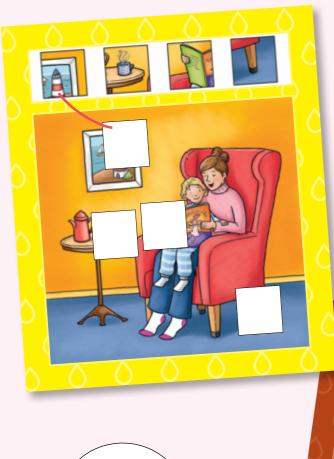
LOWER SECONDARY

UPPER SECONDARY

GERMAN AS A FOREIGN LANGUAGE

KINDERGARDEN



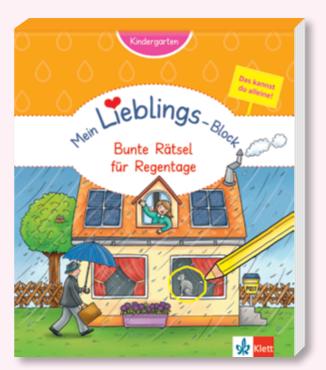


Illustrations, appropriate for children, motivate and are fun





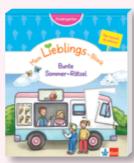
The separate exercises are marked with colour frames



Pad 17 x 20 cm / 96 pages



Puzzle-Fun with **Baby Animals** ISBN 978-3-12-949626-8



Summer Puzzles ISBN 978-3-12-949625-1



Letters



Colours, Shapes, Numbers ISBN 978-3-12-949171-3



Puzzle Fun for Princesses ISBN 978-3-12-949522-3



Recognize, Remember, Connect ISBN 978-312-949194-2

My Favourite Pad

For children from 3 years of age

- Children can solve the games and exercises in the Favourite Pad series completely on their own
- The pads promote concentration, abstract thinking, observation skills and fine motor skills in a playful
- The tasks are self-explanatory
- With this series, parents can rely on educationally sound content

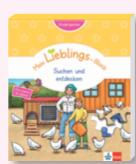
Colourful Puzzles for Rainy Days ISBN 978-3-12-949591-9



Farm Puzzles ISBN 978-3-12-949486-8



Kindergarden Puzzles ISBN 978-3-12-949170-6



Searching and Discovering ISBN 978-3-12-949555-1



First Handwriting Exercises ISBN 978-3-12-949521-6



My First Puzzle Games ISBN 978-3-12-949485-1



ISBN 978-3-12-949442-4

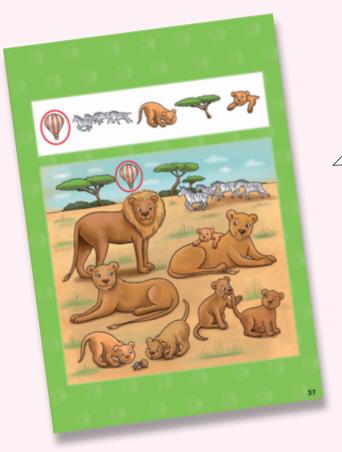
For Car Trips ISBN 978-3-12-949179-9

To End Boredom ISBN 978-3-12-949180-5

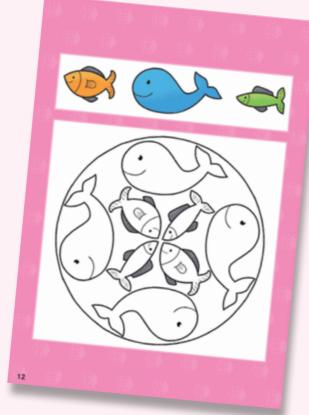


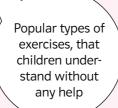
Patterns, Pictures and ISBN 978-3-12-949172-0

Kindergarden ______ Kindergarden _____ Kindergarden _____



Illustrations, appropriate for children, motivate and are fun







Book 21 x 29.7 cm / 96 pages

Colourful Pre-school Fun ISBN 978-3-12-949181-2



Going to Kindergarden! ISBN 978-3-12-949173-7

My Favourite Book

For children from 3 years of age

- Children can solve the puzzles in the Favourite Book series completely on their own
- The books promote concentration and endurance, abstract thinking, observation skills and fine motor skills in a playful manner
- The tasks are self-explanatory, thus parents are relieved





Kindergarden Puzzle Fun ISBN 978-3-12-949196-6





21 x 29.7 cm / 128 pages

ISBN 978-3-12-949543-8



Pad 17 x 24 cm / 224 pages

ISBN 978-3-12-949554-4

My Big Colourful Kindergarden Book

For children from 3 years of age

- More than 200 colourful exercises to practice letters, numbers, colours and shapes
- Quite incidentally, it promotes fine motor skills, concentration and logical thinking in a playful manner
- Understanding guaranteed: With the help of symbols in the task, children easily recognize what they need to do
- Full transparency: At a glance parents can see which skills an exercise promotes

My Big Colourful Kindergarden Pad

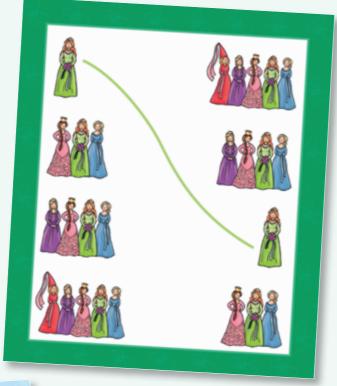
For children from 3 years of age

- More than 100 colourful exercises to practice letters, numbers, colours and shapes
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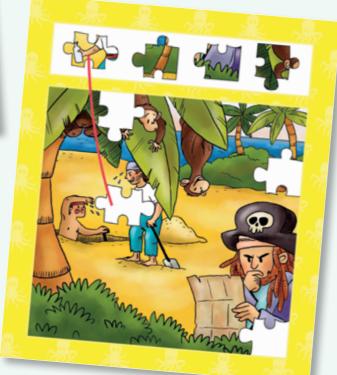
PRE-SCHOOL



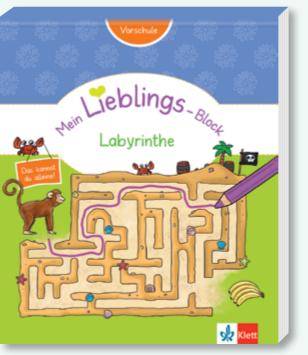




Popular puzzles that children can do on their own, thus, encouraging self-confidence



Illustrations, appropriate for children, motivate and are fun



Pad 17 x 20 cm / 96 pages



Connecting Dots ISBN 978-3-12-949556-8



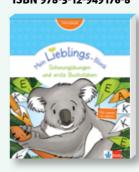
For Traveling ISBN 978-3-12-949182-9



Puzzle Fun with Pirates ISBN 978-3-12-949487-5



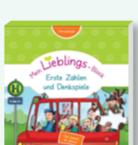
Counting, Shapes and Amounts ISBN 978-3-12-949176-8



Handwriting Exercises ISBN 978-3-12-949174-4



Puzzling with wild animals ISBN 978-3-12-949488-2



First Numbers and Puzzles ISBN 978-3-12-949445-5



It's Magic ISBN 978-3-12-949444-8



Searching and Reading ISBN 978-3-12-949175-1



For children from 5 years of age

• Children can solve the games and exercises in the Favourite Pad series completely on their own

Pre-School

- The pads promote concentration, abstract thinking, observation skills and fine motor skills in a playful
- The tasks are self-explanatory
- With this series, parents can rely on educationally sound content



For the Holidays ISBN 978-3-12-949183-6



Labyrinths ISBN 978-3-12-949523-0



Puzzles with numbers and shapes ISBN 978-3-12-949610-7

12 Pre-School Pre-School

Mein graßes eblings – Buch Rätselspaß zum Schulanfang

Book 21 x 29.7 cm / 96 pages

Puzzle Fun for Starting School ISBN 978-3-12-949184-3



Jolly Puzzles for Starting School ISBN 978-3-12-949197-3

My Favourite Book

For children from 5 years of age

- Children can solve the puzzles in the Favourite Book series completely on their own
- The books promote concentration and endurance, abstract thinking, observation skills, and fine motor skills in a playful manner
- The tasks are self-explanatory, thus parents are relieved





Going to School! ISBN 978-3-12-949177-5



Pad 17 x 24 cm / 96 pages

Early Number Work and Concentration ISBN 978-3-12-949628-2

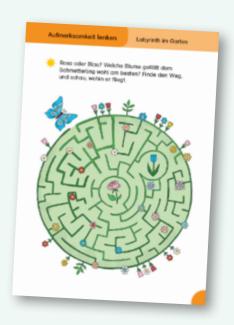


Numbers, Logic Skills ISBN 978-3-12-949629-9

My Big Pre-school Pad

For children from 5 years of age

- Imaginative, playful exercises promote all of the important basics for an optimal start to school
- Filled with cheerful illustrations, it offers plenty of space for writing and painting and is ideal for on the go
- With the school readiness test, parents can quickly assess where their child needs targeted support





Concentration and Puzzle Games ISBN 978-3-12-949262-8

Pre-School Pre-School



17 x 24 cm / 144 pages

ISBN 978-3-12-949279-6



Book 21 x 29.7 cm / 96 pages

ISBN 978-3-12-949286-4

150 Educational Games for Pre-school Children

For children from 5 years of age

- With playful exercises for the most important areas of development at the pre-school age
- Educational games for the areas language and communication, concentration, movement and motor skills, basic math concepts and personality development
- The cheerful illustrated exercises stimulate the desire of participation and trying out



Ready for School!

Numbers and Quantities, Shapes and Colours, Concentration

For children from 5 years of age

- 90 playful exercises promote all the important basics for learning success
- Contains many colouring sheets, cutout sheets and ideas for games
- With the school readiness test, parents can quickly assess where their child needs targeted support
- **Extra:** Useful information for parents for encouraging in everyday situations



Book 21 x 29.7 cm / 96 pages

ISBN 978-3-12-949389-2

100 Brain and Concentration Games

For children from 4 years of age

- With these highly imaginative exercises children learn to sit still, remain silent, listen and retell, finish an exercise, show persistence and concentrate on details
- Cheerfully illustrated problems that are appropriate for children encourage joining in and trying
- Also included are easy-to-understand background information for children and practical tips to further support concentration in everday situations



Book 21 x 29.7 cm / 96 pages

ISBN 978-3-12-949387-8

100 Exercises to Prepare for School

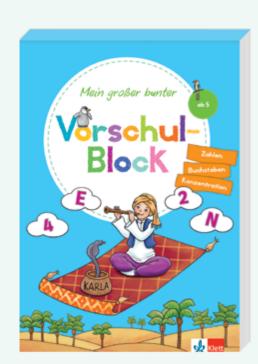
For children from 5 years of age

- With exercises in 7 important skill areas children learn sensory perception, body control, learning ability, language & vocabulary, basic size & number sense, social skills and personality
- The exercises encourage children to try out activities like telling stories, doing jumping jacks and more
- Also included are easy-to-understand background information and tips for encouraging the child's development in everyday situations



Book 21 x 29.7 cm / 192 pages

ISBN 978-3-12-949544-5



Pad 17 x 24 cm / 224 pages

ISBN 978-3-12-949553-7

My Big Colourful Pre-school Book

For children from 5 years of age

- More than 300 colourful exercises to practice letters, numbers, colours and shapes
- Quite incidentally, it promotes fine motor skills, concentration and logical thinking in a playful manner
- Understanding guaranteed: With the help of symbols in the task, children easily recognize what they need to do
- Full transparency: At a glance parents can see which skills an exercise promotes





My Big Colourful Pre-school Pad

For children from 3 or 5 years of age

- More than 100 colourful exercises motivate to practice letters, numbers, colours and shapes
- Quite incidentally, it promotes fine motor skills, concentration and logical thinking in a playful manner
- Understanding guaranteed: With the help of symbols in the task, children easily recognize what they need to do
- Full transparency: At a glance parents can see which skills an exercise promotes

FIRST READING



First Reading First Reading

Die Schatzsuche beginnt

Das Kreuz auf der Karte befindet sich neben dem Elefantengehege. Die vier Freunde stürmen los.

"Schaut! Die Sonne blinzelt neugierig hinter den Wolken hervor", murmelt Lana und lächelt verträumt. Die vier ziehen ihre Regenmäntel aus. "Und wie kommen wir ins Gehege?", fragt Erik. Da erbebt der Boden von stampfenden Schritten.



Elefantendame Elli marschiert

"Hallöööchen!", trompetet sie.

"Na, was macht ihr denn hier?"

"Pst, sei leise!", faucht Erik. "Sonst merkt noch jemand, dass wir ..."

mit schwingendem Rüssel näher.

Amount of text, illustration and line length fit perfectly for 1st/2nd grade

"Elli, wir suchen hier einen Schatz ..." "Einen Schaaatz?", trompetet Elli. "Mein lieber Stoßzahn, wie aufreg..." "Scht!", machen die Tierkinder. "Verzeihung", sagt Elli leiser. Sie lässt die vier Abenteurer über ihren langen Rüssel nacheinander ins Gehege klettern.

"Okidoki", flüstert Anton.

Information

Die Freunde beginnen mit der Suche. Kim sucht in den Büschen. Lana lugt in den Futtertrog. Beide finden nichts. Erik greift mit seiner Pfote in einen hohlen Baum. Auch hier ist wieder nichts! "Oder in Ellis Ohr?", fragt Anton. "Hach, das kitzelt!", lacht Elli. Nichts", sagt Anton enttäuscht.

and question boxes about exciting topics

Bei welchem Spiel kommt Anton

A O beim Weitspringen

O beim Versteckspiel T O bei der Schatzsuche

2 Wen belauscht Anton heimlich

Tierpfleger

G O seine Freunde

zufällig am Wohnmobil vorbei?

3 Warum überlegt Frau Löwenmaul. Lese-Jagd durch ein Tier zu verkaufen? H O weil sie das Futter sonst den Zoo

- nicht mehr bezahlen kann Z O weil sonst keine Besucher mehr in den Zoo kommen
- F O weil sie größere Gehege bauen will
- Woran erkennt Kim, dass Lana eine Schatzkarte gezaubert hat?
- A O an dem großen, roten Kreuz G () an dem alten Papier
- om Dach des Wohnmobils aus? C O die Direktorin und den K O an der Geheimschrift O eine Elefantendame
 - Wie heißt die Elefantendame?
 - U O Ellie H O Eli
 - T O Elli

Checking the comprehension of the text in a playful manner with the "Reading-Hunt through the Zoo"





For 1st/2nd grade

Four Friends and a Secret

In a quiet way, like a match being just lighted, a shooting star is falling down in Glücksstadt Zoo. Because of their curiosity, Erik the little lion, Lana the kangaroo, Kim the penguin and Anton the monkey can't stay in their enclosures any longer. There must have happened something mysterious! Then the animal keeper Carrot comes for the night feeding. The young animals take the opportunity to slip through the open door into the outside ...



Book 15 x 22 cm / 48 pages

Four Friends and a Secret ISBN 978-3-12-949482-0

ier Freunde und

ein Geheimnis



A Kangaroo in the Classroom

Tino is shy and blushes really fast. As there is a presentation of animals in his class, therefore nobody wants to be in his group. When the four young animals Erik, Lana, Kim and Anton hear about that, there is a plain idea: They need to help Tino! Kim the penguin has an idea: Lana the kangaroo girl shall accompany Tino to school. Thus an animally lesson starts ...

A Kangaroo in the Classroom ISBN 978-3-12-949516-2



Veterinary Doctor Penguin

With the help of his good ears Erik the lion eavesdrops on little Tino in his children's room. Tino's hamster is ill and it doesn't want to eat anything. Immediately Erik's friend Kim the penguin concocts a magic medicine. Can the miracle medicine rescue the hamster? And can the clever penguin help even more ill animals?

Veterinary Doctor Penguin ISBN 978-3-12-949517-9

First Reading First Reading



The Secret Treasure in the Zoo

The Glücksstadt Zoo urgently needs some money. That's why Anton the monkey shall be sold. Erik the little lion, Kim the penguin and Lana the kangaroo can't allow that! So it is fitting that Lana finds a mysterious map in her pouch. Is it possible that there is a valuable treasure hidden somewhere in the zoo? Finally the four friends go on a quest together ...

The Secret Treasure in the Zoo ISBN 978-3-12-949518-6



The Crazy Monkey Taxi

At Glücksstadt Zoo a food delivery failed to appear. Anton the monkey wants his delicious bananas back at last and decides to obtain the food himself. Together with his friends he runs away. Kim the penguin is able to start an old jeep with the help of his magic power to invent. The crazy search for food starts with a breakneck speed ...

The Crazy Monkey Taxi ISBN 978-3-12-949481-3



Small Giraffe in Great Danger

One evening the lion Erik hears some footsteps in the zoo. Together with his three friends he gets to the bottom of the puzzle: The door of the enclosure of the giraffes is open and the baby giraffe is missing! Where did it get lost? The friends start a scavenger hunt with the help of Erik's good ears ...

Small Giraffe in Great Danger ISBN 978-3-12-949484-4



The Wrong Wizard

Kim the penguin found a puzzling envelope in his enclosure. As he opens it, he scarcely believes his lenses! An abduction in Glücksstadt? The rabbit Hugo in danger? From that moment on there starts a rapid search for Kim and his friends. The tracks lead to Master Simsala ...

The Wrong Wizard ISBN 978-3-12-949483-7



15 x 22 cm / 32 pages

Pix Wanders through the Universe ISBN 978-3-12-949233-8

Peer und der

Piratenfluch



Peer and the Pirates' Curse

Peer lives at the seaside and dreams of becoming a pirate captain. One day at the beach he is stumbling on a toy boat. He can't believe his eyes: There are tiny but real pirates sitting on the inside of the boat! Is his dream possibly becoming real?

Peer and the Pirates' Curse ISBN 978-3-12-949222-2



Princess Pepita and the Cake Monster

Pepita has been told that princesses aren't allowed to bake. But she is determined to give it a try. She sneaks into the bakery with her friends. But something's not quite right with the cake batter...

Princess Pepita and the Cake Monster ISBN 978-3-12-949234-5



For 1st grade

Pix Wanders through the Universe

Pix the little alien has terrible fear of flying. However his teacher in "Space Travel" knows no pity: Pix has to practice flying! Thus, his spaceship races through space heading directly towards a giant rock ...





The Invisible Pony Club

Klara and Milli desperately want to take riding lessons, but their parents are against it. And they can't possibly learn to ride if they don't have any ponies – or can they? Milli has an idea.

The Invisible Pony Club ISBN 978-3-12-949202-4



Book 15 x 22 cm / 32 pages

Detective Leon Sets a Trap ISBN 978-3-12-949223-9

Erik rettet die Wikinger Gustanten Gustanten

Erik Rescues the Vikings

Erik is travelling with the Vikings on a dragon ship. Suddenly a terrible storm hits and the Vikings lose their bearings. Will they be able to find their way back to land?

Erik Rescues the Vikings ISBN 978-3-12-949243-7

I Can Read Now!

For 2nd grade

Detective Leon Sets a Trap

Leon, Daniel, Jonas and Lotte are shocked: Who on earth could have stolen Daniel's soccer badge? There are plenty of suspects but none of the clues lead anywhere. Luckily Leon has experience as a detective. He sets a trap for the unknown thief.



Konrad the Knight and the Burping Horse

Konradin the Knight is angry. Tomorrow there is the great knight tournament - and now ironically his horse belches and has a bad face. How shall he just defeat his proud opponent the knight Bolko now?

Konrad the Knight and the Burping Horse ISBN 978-3-12-949203-1



Policeman Pit and the Kidnapped Grandma

Twins Jonas and Klara are desperate! Their Grandma has disappeared and everything points to a kidnapping. Together with Policeman Pit and his dog Rübe they go off in search for her. Will they find their Grandma again?

Policeman Pit and the Kidnapped Grandma ISBN 978-3-12-949244-4

PRIMARY



24 Primary **Primary**

Practice until it works perfectly the great number of exercises makes it possible

Clear label-

ling of the

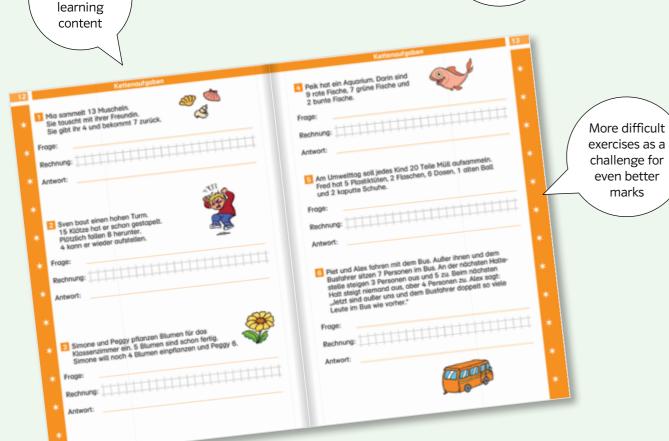
| I Im Zoo sind Pinguine geschlüpft. Zu den 30 Pinguinen sind nun noch 12 Pinguinbotwe derwende den 30 Pinguinen sind | Plusoufgoben |
|---|---|
| nun noch 12 Pinguinbabys dazugekommen. | Die Koolas knabbern nur Eukalyptusbl\u00e4tter, die sie frisch vom Zweig abzupfen. Der eine Koola nur 28 Billione. |
| echnung: | der andere 14. |
| | Frage: |
| Antwort: | Rechnung: |
| | Antwore: |
| Es ist Seehundfütterung. Für die Seehunde stehen schon 38 Fische bereit. Der Wörter kommt mit einem weiteren Eimer, in dem sich 12 Fische befinden. | Bei den Affen geht es hoch her, Sie hoben alles durch das Gehege geworfen. In der einen Ecke liegen 27 Bötle und in der anderen 11. |
| ge: | Frage: |
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| | Die Elefonten werden 2-mol om Tog mit Ägfein von den Besuchern gelüttert. Am Monor von |
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| Die Bören bekommen ein neues Gehege. Dazu werden Steine angeliefert. Auf dem einen Berg liegen nun 72 Steine, auf dem anderen 17 Steine. | Frage: |
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| | Nissel But de bereit für stoses nach Kuffligeres? |
| | Bitters sinfact um - las quirt's |

The heroes Hanna and Henri help with tips and motivate

More difficult

even better

marks





17 x 24 cm / 64 pages + solutions

Maths Heroes

For 1st to 4th grade

- In each issue, young readers are challenged to solve puzzles as they engage in an exciting adventure
- The word problems are clearly explained and contain effective aids for solving the problem
- Children can practice on two levels: The basic level for all children and extra problems for those needing a somewhat tougher challenge
- With a practical flap for use as a bookmark
- Extra: big sticker photo as a solution to make the learning success visible





Arithmetic to 20 1st grade ISBN 978-3-12-949417-2

Arithmetic to 100 2nd grade ISBN 978-3-12-949424-0

Arithmetic to 1000 3rd grade ISBN 978-3-12-949384-7

Arithmetic to 1 Million 4th grade ISBN 978-3-12-949425-7

Learning to Multiply 2nd/3rd grade ISBN 978-3-12-949418-9



Mental Arithmetic 1st grade ISBN 978-3-12-949588-9

Mental Arithmetic 2nd grade ISBN 978-3-12-949557-5

Mental Arithmetic 3rd grade ISBN 978-3-12-949606-0



Brain Teasers 1st grade ISBN 978-3-12-949607-7

Brain Teasers 2nd grade ISBN 978-3-12-949586-5

Brain Teasers 3rd grade ISBN 978-3-12-949633-6



Problem Solving 2nd grade ISBN 978-3-12-949389-2

Problem Solving 3rd grade ISBN 978-3-12-949419-6

Problem Solving 4th grade ISBN 978-3-12-949421-9

Primary 26 Primary



21 x 29.7 cm / 96 pages

Maths 1 1st grade ISBN 978-3-12-949534-6

My Big Training Book

For 1st to 4th grade

- Provides all of the essentials: Numbers and basic arithmetic, sizes and measuring, space and shapes, patterns and structures, dates and practical situations
- Game and fun pages provide additional motivation at regular intervals
- Reminder boxes and tips provide additional
- Includes removable solutions booklet









Maths 4 4th grade ISBN 978-3-12-949461-5



21 x 29.7 cm / 48 pages

ISBN 978-3-12-949565-0

Counting to 20

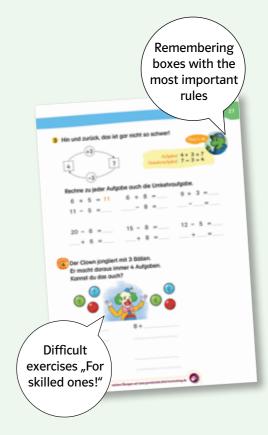
1st grade

Counting to 100 2nd grade ISBN 978-3-12-949567-4

My Exercise Book

For 1st to 4th grade

- Children can practice important topics in an entertaining way
- The concise learning sections are easy to digest, while imaginative exercises make practicing fun
- Reminder boxes and tips provide assistance





Maths 2 2nd grade ISBN 978-3-12-949535-3



Maths 3 3rd grade ISBN 978-3-12-949459-2



Rechnen bis 20

+Lern-

Poster

Multiplication Tables to 10 2nd/3rd grade ISBN 978-3-12-949568-1

So werde ich spitze!



28 Primary

My Exercise Book



English 3 3rd grade ISBN 978-3-12-949570-4



English 4 4th grade ISBN 978-3-12-949571-1



14.8 x 21 cm / 96 pages

Maths: Calculating 1st grade ISBN 978-3-12-949463-9





Maths Problems 3 3rd grade ISBN 978-3-12-949119-5



Maths Problems 4 4th grade ISBN 978-3-12-949103-4

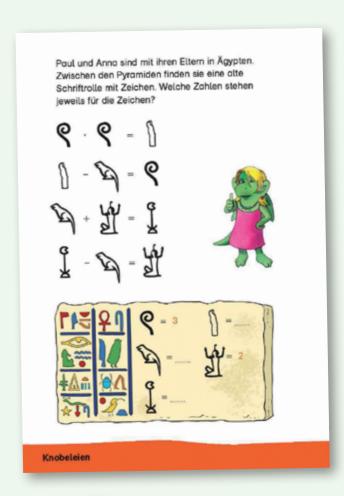


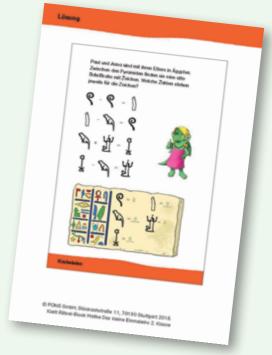
Maths: Multiplication Tables to 10 2nd grade ISBN 978-3-12-949464-6

My Puzzle Pad

For 1st/2nd grade

- Varied puzzles for practicing maths
- Funny puzzles like Sudoku, join the dots pictures or secret codes cover the most important topics
- With solutions on the back of each page





30 Primary

14.8 x 21 cm / 96 pages

Counting to 20 1st grade ISBN 978-3-12-949428-8



Counting to 20 1st grade ISBN 978-3-12-949351-9

My Test Pad

For 1st to 4th grade

- With this handy little test pad elementary school children can assess their knowledge independently
- Contains exercises, answers and a range of practical applications as well as lots of tips and hints on how
- The quiz format and point accumulation system motivate young learners



Counting to 20 1st grade ISBN 978-3-12-978-3-12-949353-3

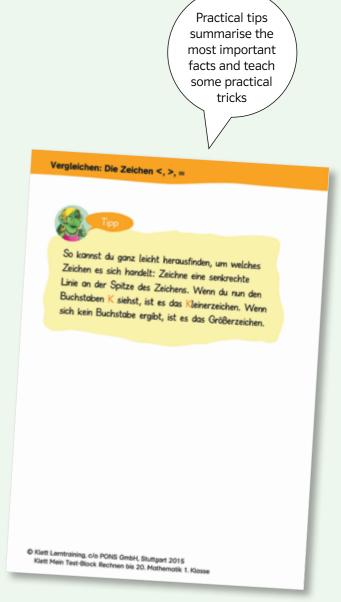


Mastering Maths Problems 3 3rd grade ISBN 978-3-12-949143-0





Mastering Maths Problems 4 4th grade ISBN 978-3-12-949142-3





17 x 24 cm / 220 pages

Maths 3/4 ISBN 978-3-12-949115-7



17 x 24 cm / 320 pages

Maths Primary School 1st-4th grade ISBN 978-3-12-561798-8

380 Short Tests that Really Help

For 3rd/4th grade

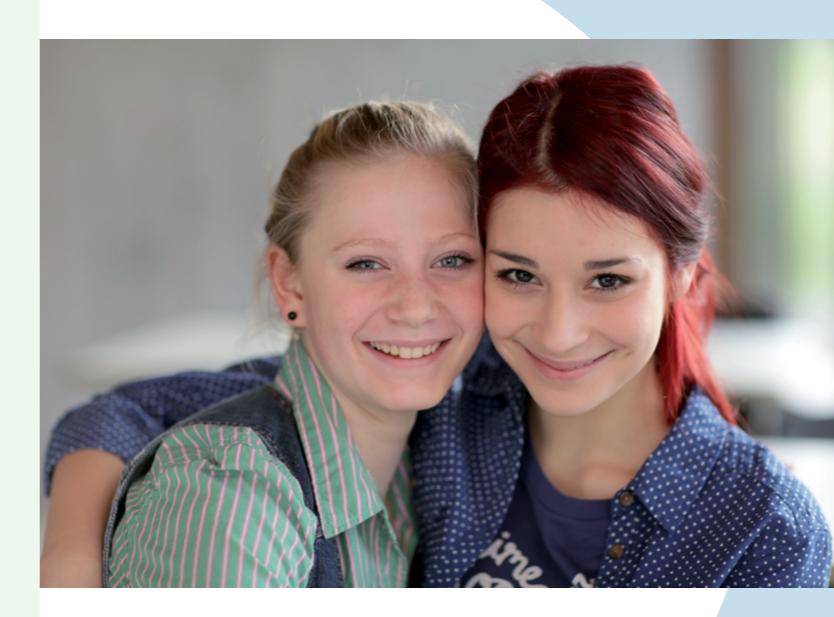
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LOWER SECONDARY



Lower Secondary Lower Secondary



Ionenverbindungen bezeichnet man auch als Salze. Sie entstehen häufig aus der Reaktion von Elementen: Metall + Nichtmetall → Salz.

Beispiel: Kochsalz

Alle Salze sind mittels Ionenbindung aufgebaut. Ein bekannter Vertreter ist Kochsalz, chemische Bezeich-nung Natriumchlorid, ein Metallhalogenid. Da den beteiligten Elementen Natrium Na und Chlor Cl in der Formel NaCl keine tiefgestellten Zahlen ("Index", Plural "Indices") folgen, bedeutet dies, dass für eine Einheit Natriumchlorid eine Einheit Natrium und eine Einheit Chlor benötigt wird. Man könnte auch Na₁Cl₁ schreiben, lässt der Einfachheit halber aber bei der Anzahl "1" die Zahl weg.

Elektronenbetrachtung von NaCl

Natrium hat ein einziges Elektron auf der Außenschale, es steht in der ersten Hauptgruppe des Periodensystems der Elemente. Chlor hingegen steht in der siebten Hauptgruppe und weist demzufolge sieben Valenzelektronen auf. Bei Natriumchlorid hat das Natriumatom sein einziges Valenzelektron an das Chloratom abgegeben: Da-durch wird es zu einem einfach positiv geladenem Ion, während das entstandene Chlorion einfach negativ geladen ist. Diese Ionen ziehen sich an.







11 Kohlenwasserstoffe

QUICK-FINDER

11.1 Kohlenwasserstoffe allgemein

- Grundsatzliches → 5.121
- Eigenschaften → 5.122 Molekülstruktur → 5.123 © Lern-Video

11.2 Alkane

- Eigenschaften → S. 124
- Besonders wichtig: Van-der-Waals-Krafte
 S. 125
- Strukturisomerie → 5.126
- Halbstrukturformeln -> 5, 128
- Verwendung → S. 129

11.3 Weitere Kohlenwasserstoffe

- Mehrfachbindung: Alkene und Alkine S. 129
- Ringförmige Kohlenwasserstoffe → S. 131

Matching instructional videos explain difficult topics

Um Atome genau zu beschreiben, gibt es einige Kennzeichnungsmöglichkeiten.

Um den Atomkern genau zu be-schreiben, gibt man die Protonenund die Nukleonenzahl sowie die Elementkurzschreibweise an.



27

Da die Nukleonenzahl die Summe aus Protonen und Neutronen ist, subtrahiert man einfach die kleinere von der größeren Zahl, um die Anzahl der Neutronen zu erhalten. In diesem Beispiel hat das Lithiumatom also drei Protonen und vier Neutronen.

Ein Atom ist gekennzeichnet durch die Ordnungszahl und seine Masse, die sogenannte Atommasse. Die Atommasse lässt sich durch die Summe von Protonen und Neutronen errechnen. Die Ordnungszahl entspricht der Anzahl der Protonen und ist für ein Element eine feste Große. Bei Elementen mit mehreren Isotopen (Mischelemente) ist die in Nachschlagewerken angegebene Atom-masse der Mittelwert der einzelnen Isotope unter Einbeziehung ihrer Häufigkeit.

Beispiel: Lithium hat die Ordnungszahl (Protonenzahl) 3, die Atommasse beträgt etwa 7 u. Der genaue Wert ist 6,941 u, da es einen kleinen Anteil des Isotops mit drei und einen viel größeren mit vier Neutrone

> Various examples for a better understanding

With the "Quick-Finder" in front of each chapter it is easy to find one's way



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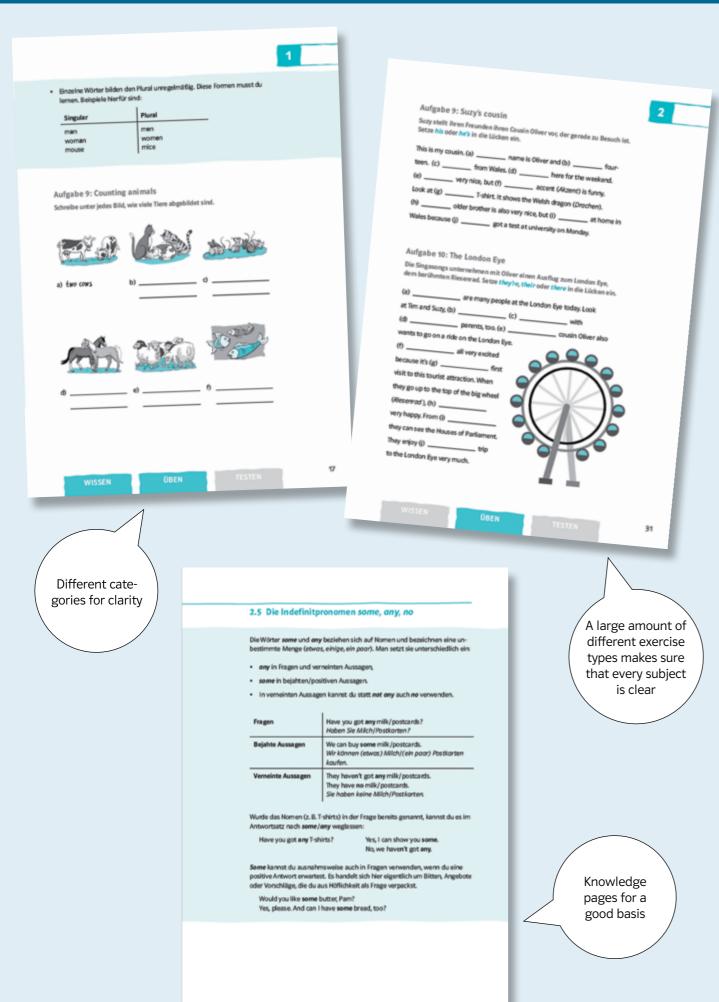


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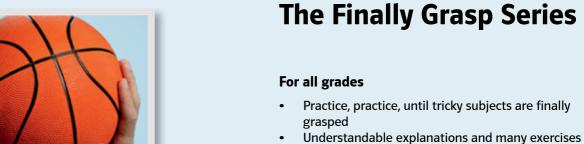
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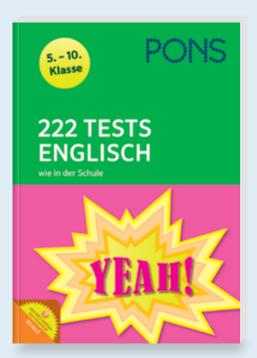
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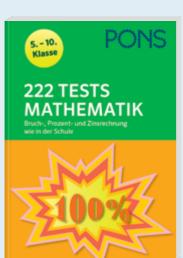
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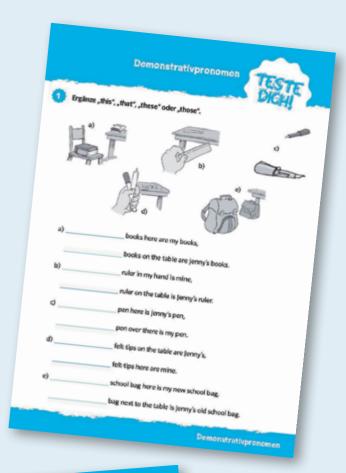
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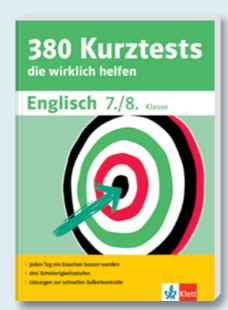


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- Tenses
- Numbers and dates
- Relative clauses
- Indirect speech



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- Parts of speech (adjectives, adverbs, modal verbs, conjunctions)
- Relative clauses, if-clauses
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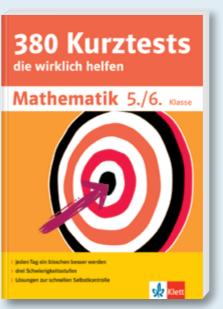
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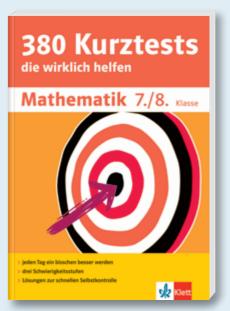
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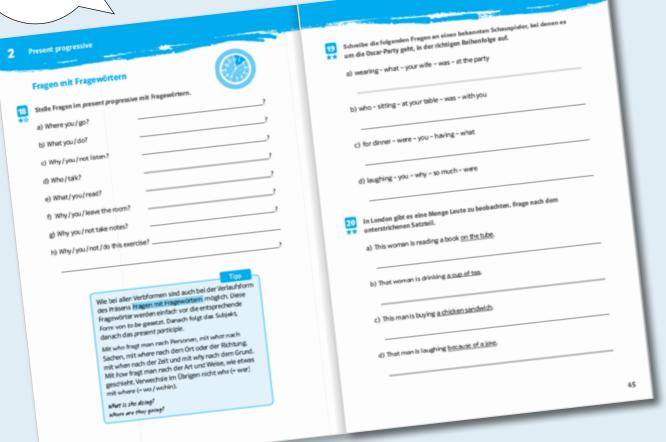
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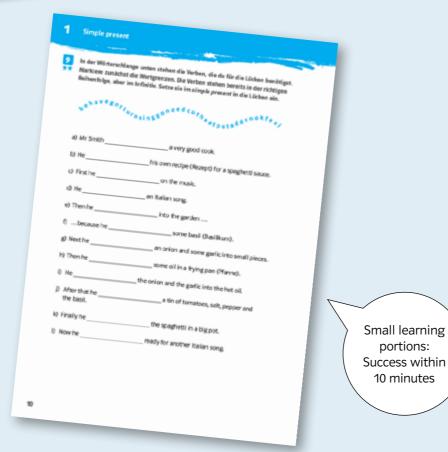
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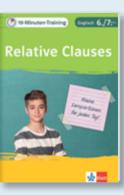
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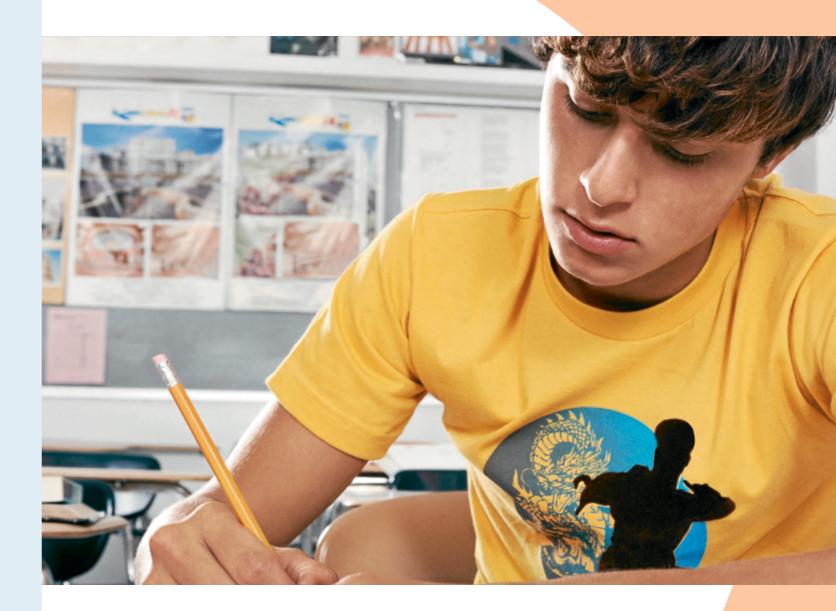


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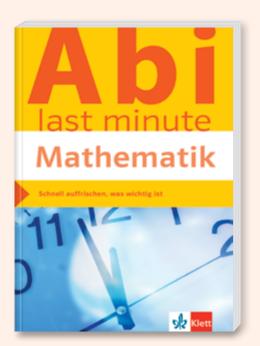


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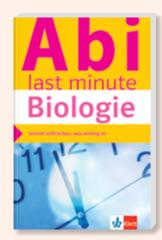


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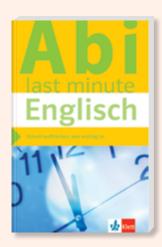


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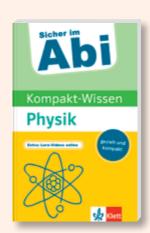
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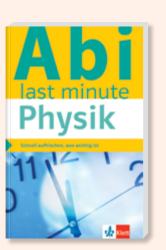
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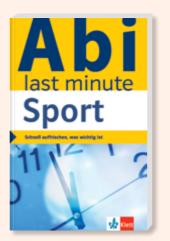
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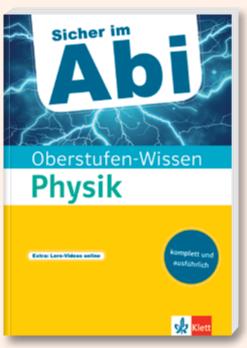
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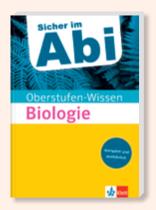
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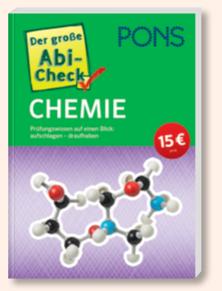
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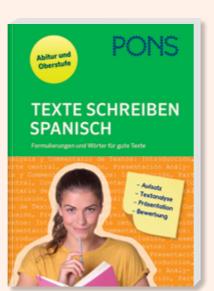
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