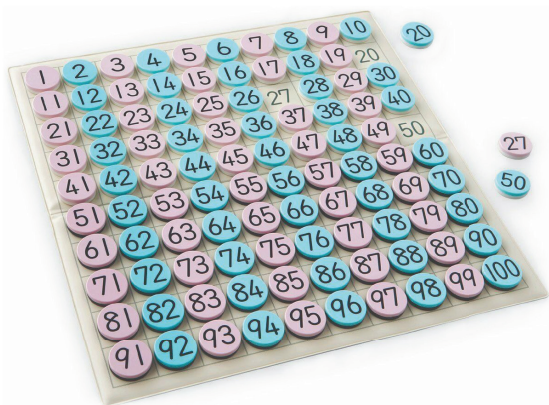


KUMON

1-100磁石數字盤說明書

磁石數字盤是開發幼兒潛能的智育玩具

讓磁石數字盤帶我們到快樂的數字世界中去吧！



幼兒智力發育的速度是超乎成年人的想像的。

「應該採取適當的方法，儘早對幼兒進行語言和數字方面的智力開發教育」，這是越來越多的學者和教育家所一致主張的。因此，為幼兒創造一個良好的學習環境，並提供符合幼兒特點、興趣的教學用具是非常重要的。

「學習是從會握筆的那一刻開始的」，這是大人通常認為的，果真如此嗎？還有人認為學

習就是端端正正地坐在書桌前。然而，正如大家所知道的那樣，幼兒是不會像大人那樣思考的，因為對他們來說，學習和遊戲並沒有區別。幼兒可通過遊戲認識周圍的事物，學習新知識。只有首先感到有興趣，才會去做、去學習，這是幼兒的特點。

「公文式磁石數字盤」就是針對幼兒的這一特點設計的，使孩子能夠在輕鬆愉快的遊戲中學習唱數、數數的教學用具，為日後進階至1-100數字盤，及以形象化掌握加、減、乘法等數理概念，打下基礎。

對孩子來說，看到的一切東西都是好玩的、感興趣的，「公文式磁石數字盤」就是充分考慮了幼兒的特點、興趣而設計的教具。通過將寫有數字的磁石小棋子放到棋盤上對應的格子裡，孩子可以 ① 認數；② 唱數；③ 排數序。孩子在幼兒期通過這種遊戲接觸、熟悉數字。這個時期所學到的東西對將來而言不僅僅只是「數字」，還會在「語言」、「創造力」方面帶來不可忽視的重要影響。

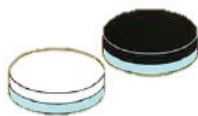
處於幼童時期的孩子使用磁石數字盤是最有效的。有統計指出，使用磁石數字盤練習1~30、1~100排列的幼兒，學習加、減法時會比較順利。希望父母不要將磁石數字盤看成是「數字的學習」，而是一種可以配合孩子成長的「好玩的遊戲」。

磁石數字盤的特點：



磁石數字小棋子的正面分為兩種顏色，奇數為粉紅色，偶數為綠色。

棋盤的大小與幼兒的肩寬相近，從而幼兒可以方便地擺放磁石數字小棋子。



磁石數字小棋子的反面分為兩種顏色，1-50為白色，51-100為黑色。

磁石數字盤的學習效果：

① 提高手指的靈活性

手指的活動與大腦的發育有非常緊密的關係。通過靈活運用手指，讓孩子的大腦得到鍛煉，從而促進各方面的發展。在使用數字盤時，通過利用磁石的磁性反覆擺放棋子的動作，提高手指的靈活性。

② 提高識別能力

孩子通過將棋盤上的數字與棋子的數字一一對應，會逐漸認識到不同數字間的差異。通過正確地擺放「6」和「9」，「1」和「11」等，以及按順序擺放「1、2、3……」，提高識別數字的能力。

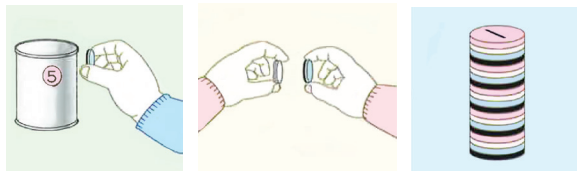
③ 認識數字排列的規律性，為導入加、減法做準備

數字是非常抽象的概念，所以僅僅像唱歌一樣記住的話，幼兒也不會理解數字的意思。因此，孩子通過擺放磁石數字小棋子，以及唱數來讓他們注意到數序及數字排列的規律性，並且讓其在不背誦數字的情況下也可以唱數，同時認識數字。這個過程也可以讓他們理解下一個數(加1)、前一個數(減1)的概念，為學習加、減法做準備。

使用方法：

1. 利用磁石的特性

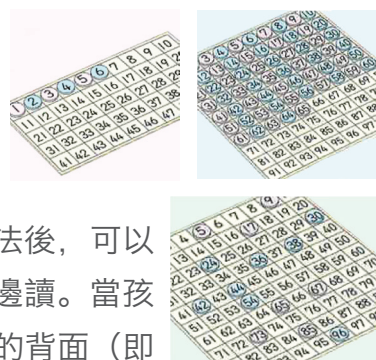
可以嘗試將磁石數字小棋子放在曲奇罐、雪櫃門等身邊常見的磁石可吸附的物件上，將兩個磁石數字小棋子貼在一起，或者將棋子疊起來。這種玩法有助培養孩子對磁石數字盤的興趣。



2. 數字組合

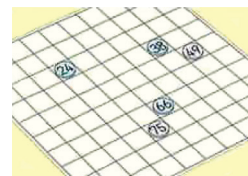
按照數字順序擺放棋子

讓孩子在棋盤的正面（即印有數字的一面）按順序擺放1-50的棋子。擺放好所有棋子後，讓孩子一邊指着棋子，一邊讀出數字「1、2、3……」。當孩子習慣了這種玩法後，可以讓其嘗試擺放1-100的棋子。擺好棋子後，讓孩子邊指邊讀。當孩子熟悉了這種玩法後，可以反轉棋盤，讓其嘗試在棋盤的背面（即沒有印數字的一面）擺放棋子。



隨機擺放棋子

讓孩子在棋盤的正面（印有數字的一面）上隨機擺放棋子，完成後讓孩子一邊指着棋子一邊讀出數字。如果孩子能夠做到的話，可以讓其嘗試在棋盤的背面（沒有印數字的一面）上隨機擺放棋子。



3. 利用數字盤練習記錄表

建議家長記錄孩子每一次的學習，了解孩子掌握數字和數序的熟練度及成長，發現孩子的進步並加以鼓勵。

	1	
數字範圍	100	
日期	5/6	
教材#	3A	

用「T」來記錄時間

記錄日期

公文式教材級別
(如適用)

父母需要配合的工作：

① 請鼓勵孩子吧

在孩子專心致志擺放磁石數字小棋子時，請家長儘量保持沉默，當孩子完成後，請發自內心地表揚他（她）：「做得真好！」

孩子經過努力，「做完啦！」的時候，首先會體會到一種完成後的成就感，如果再能夠得到父母及時的表揚，對孩子來說將會是極大的鼓舞，並激發孩子「我下次要做得更好！」的意願。這種自發的積極性積少成多，就會形成學習的原動力。



② 即使放錯了，也請不要立即一一指正



孩子即使放錯了磁石數字小棋子的位置，家長也不要立即指正，請保持沉默。

比如：在練習1~10的對應放置練習時，孩子出現錯誤，請您在孩子完成以前不要出聲指正。孩子完成後，還請照樣表揚他（她）：「你做得很好！」重複兩、三次同樣的練習後，孩子一般會自我發現錯誤並能糾正。如果重複五次以上，孩子還是出錯的話，那說明他（她）

1~5的練習還不充分，需要回到1~5的階段，再次複習，直至完全熟練。

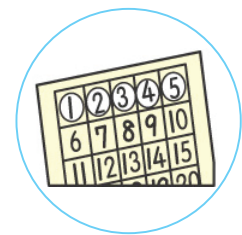
得到家長的提醒而更正和自發性的更正是完全不一樣的。這種區別將會在孩子日後的成長中越來越明顯地體現出來。為了培養有自立心、有自理能力的孩子，有時家長在一旁的靜觀也是必要的。

③ 重複的重要性

所謂「能力」其實是在大量的重複中慢慢培養出來的。幼兒是透過身體接觸來認識周圍事物的。因此，孩子會不厭其煩地重複學習一件事。剛剛會做一點點兒還沒有十分牢固地掌握技巧時就向前邁進，只會使孩子漸漸地不喜歡這樣的學習。因此，應該讓孩子重複簡單輕鬆的內容，待完全熟練地掌握後，再自發挑戰新知識。



④ 要特別重視數字1~10



在成人看來，數字1~10和1~30並沒有什麼區別，知道1~10，也就應該知道1~30。而對幼兒來說，7和17、8和18的關係並不是馬上能夠理解的。只有反覆學習1~10，在牢固掌握的基礎上才會逐漸明白11~20、21~30、7和17等數字之間的關係。因此，掌握數字1~10是牢固掌握所有數字的基礎。

注意事項 (家長必讀)

安全警告

- 此玩具內有細小零件，不適合三歲以下兒童，可能會引致窒息危險。
- 請注意不要讓孩子把磁石數字小棋子放進嘴裡，以免發生危險。
- 請讓孩子在家長陪同下進行遊戲。
- 請不要亂扔、敲打磁石數字小棋子，以免小棋子破裂損壞。
- 由於棋盤是使用鐵板製成的，因此每次使用前請檢查棋盤的包裹物是否有破損，防止鐵板內芯露出，對幼兒造成傷害。為安全起見，如果商品出現變形或損毀，請停止使用。
- 請小心提起、放置棋盤和磁石數字小棋子，不要拋擲或用力碰撞。

公文理念

我們要發現並最大限度地開發每個人潛在的能力，
培養健全而有能力的人才，為人類社會做出貢獻。

公文香港有限公司

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網站: www.kumon.edu.hk

數字盤練習記錄表

姓名	年級

min.	*																					
	10																					
	9																					
	8																					
	7																					
	6																					
	5																					
	4																					
	3																					
	2																					
	1																					
數字範圍	100																					
日期	5/6																					
教材#	3A																					

#公文式教材級別 (如適用) *10分鐘以上使用

數字盤練習記錄表

姓名	年級

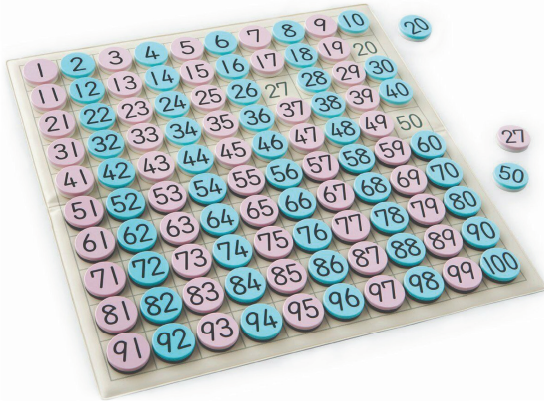
min.	*																					
	10																					
	9																					
	8																					
	7																					
	6																					
	5																					
	4																					
	3																					
	2																					
	1																					
數字範圍	100																					
日期	5/6																					
教材#	3A																					



Kumon Magnetic Number Board 1-100 User Manual

Kumon Magnetic Number Board is a supplementary tool for exploring children’s potential.

Magnetic Number Board Brings Us into a Joyful Mathematics World!



The speed of the intellectual development of children is beyond our imagination. More and more scholars and educators unanimously affirm that “a proper way should be adopted to develop children’s intelligence in respect of language and mathematics as early as possible.” Therefore, to create a good learning environment for young children and to provide them with proper and joyful learning tools are vital.

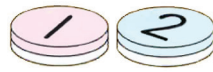
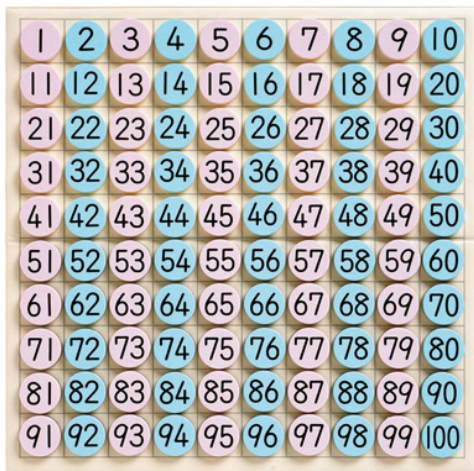
“Learning starts at the moment when kids hold a pencil”, this is a common belief among most adults. Is that true? Others may think that learning means sitting quietly at the desk. As we all know, children do not think like adults. For children, there is no difference between study and play. They can understand more about the surrounding things and acquire new knowledge through playing games. A unique feature of children is that they need to feel interesting in the thing first before they will proceed to do and learn.

Kumon Magnetic Number Board is designed based on this unique feature of children. It aims to make them feel relaxed and joyful while they are playing and learning to count, as well as laying a solid foundation for understanding the concept of addition, subtraction and multiplication.

Everything is playful and interesting for children. Taking this attribute of children into consideration, the Kumon Magnetic Number Board is designed as a learning tool for learning number sequences. Placing the magnetic numbers pieces on the number board enables children to recognize and count numbers, as well as to learn the number sequences. In addition, learning and understanding these in the early childhood period do not simply mean “numbers” to the children but also have a significant impact on the development of their “language ability” and “creativity” in the future. Therefore, through playing mathematics games, children could acquire knowledge in many respects.

It is most effective for children to use the Magnetic Number Board in their early childhood. According to our research, children with experiences to learn the number sequence of 1-30 and 1-100 by practicing the Magnetic Number Boards would be easier to learn addition and subtraction. The Magnetic Number Board is not simply a tool for the children to “learn the numbers”, but an “interesting game” that helps the growth of children.

Features of 1-100 Magnet Number Board:



The front side of the magnetic number pieces are divided into two colors: Odd numbers are pink and even numbers are green.

The size of the number board is designed to match with the shoulder width of a child so that the child can easily place the magnetic number pieces.



There are two colors on the reverse side of the magnetic number pieces, 1-50 is white and 51-100 is black.

The Advantages of Learning with 1-100 Magnetic Number Board

① Improve the flexibility of fingers

The flexibility of fingers is closely related to the development of the brain. Through the flexible use of fingers, children's brains can be trained, thus promoting all aspects of development. By placing the magnetic number pieces repeatedly on the number board can enhance the flexibility of children's fingers.

② Enhance the recognition ability

By matching the numbers on the number board and the magnetic number pieces, children can gradually develop the ability to recognize different numbers and shapes. By placing the numbers "6" and "9", "1" and "11", and in numerical order of "1, 2, 3", children can enhance their number recognition ability.

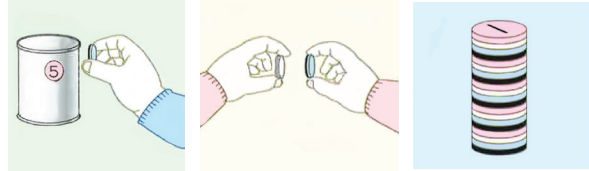
③ Build the foundation to learn Addition and Subtraction by understanding the patterns of number sequences

Numbers are very abstract concepts. Children will not understand the meaning of numbers only by remembering it like singing. The Magnetic Number Board allows children to notice the number sequences and the patterns of these number sequences. At the same time, it also helps children learn about the numbers without reciting simply by placing the magnetic number pieces and reading the numbers aloud at the same time. Through these processes, children can better understand the concept of the next number (+1) and the previous number (-1) which prepare them to learn addition and subtraction in the future.

How to Play:

1. Using the Features of Magnets

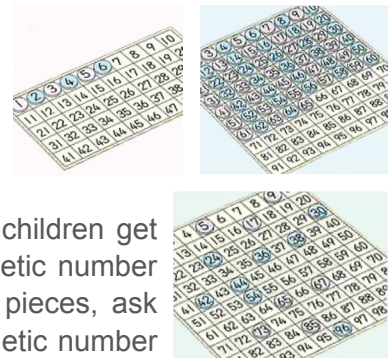
Try placing the magnetic number pieces on something magnetic like cookies can or refrigerator or simply by sticking two pieces together or stacking the pieces on top of each other. This is a great way to develop an interest towards playing the magnetic number board.



2. Number Combinations

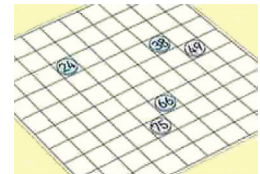
Place the pieces in numerical order

Let children place the magnetic number pieces in numerical order from 1-50 on the front of the number board with numbers printed on it. After placing all the magnetic number pieces, ask them to read the numbers 1,2,3... aloud while pointing to the respective magnetic number pieces. When children get used with the game, let them challenge to place the magnetic number pieces from 1-100. After placing all the magnetic number pieces, ask them to read the numbers aloud while pointing to the magnetic number pieces. When they are familiar with this game, reverse the number board and ask them to place the magnetic number pieces on the back side of the board without numbers printed on it.



Place the magnetic number pieces randomly

Let children place the magnetic number pieces randomly on the number board with 1-100 numbers printed on it. After placing all the magnetic number pieces, ask them to read the numbers aloud while pointing to the respective magnetic number pieces.



3. Make Good Use of the Record Sheet

It is recommended that parents shall make good use of the Record Sheet by recording the results every time the children play the number board in order to understand their proficiency and level of mastery of numbers and number sequences such that parents can encourage them while they are making progress.

	1	
Range	100	
Date	5/6	
WS#	3A	

Use "T" to record the time

Record date

The level of Kumon Worksheet (if applicable)

Parents' collaboration:

① Encouragement to children

Parents should remain silent when children are playing with the Magnetic Number Board. Praise them from the bottom of the heart if they finish playing the number board. Children will have a sense of achievement after their works are done with effort. If parents praise them promptly, children will be greatly encouraged to do better next time. Many a little makes a mickle. This spontaneous initiative will gradually turn into the motivation for learning.



② Do not point out the mistake immediately even children put the magnetic number pieces wrongly on the number board



Even if children place the magnetic number pieces wrongly, parents should remain silent instead of pointing out the mistake immediately. When the game is completed, praise them as usual. Normally, they will be able to figure out the mistake and correct it on their own after 2 or 3 times of repetition. If the same mistake is made more than 5 times, it means that they may not have enough practice of numbers 1-5 and more practice is required to master the skill. Making corrections after parents' reminder is totally different from making the correction spontaneously by the children.

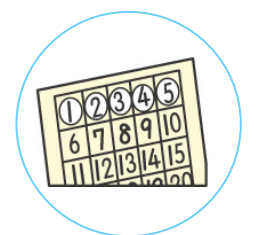
The difference will become more obvious as the children grow up. Thus, careful observation from parents is necessary for nurturing children's self-learning ability.

③ The importance of repetition

"Ability" is only being nurtured and developed as a result of a lot of repetitions. Children start learning and getting to know things by touching. Therefore, children may repeat the same thing tirelessly. Advancing without solid foundation and necessary skill will discourage children from learning. Therefore, it would be better for children to learn through simple and easy contents by repetition until they have fully mastered the fundamental knowledge such that they can challenge new knowledge spontaneously.



④ Pay special attention to numbers 1-10



Adults may find there is no difference between 1-10 and 1-30. However, it is another way round for children. Children may not tell right away the relationship between 7 and 17 or between 8 and 18. Only by learning 1-10 over and over again that solid foundation will be built which allow them to understand the relationship between 11-20, 21-30 or 7 and 17. Therefore, mastering the numbers 1-10 is the fundamental step.

Notes for Parents

Safety Warning

- **Choking Hazard** – Small parts. Not for children under 3 years.
- Do not let children put the magnetic number pieces in their mouths. It may cause choking.
- Parents should accompany their children when playing this magnetic number board.
- Do not throw the magnetic number pieces for safety reasons. It may damage the number pieces.
- An iron plate is installed inside the number board. To avoid danger caused by any exposed iron plate, please check the condition of the number board every time before using. If the product is deformed or damaged, please stop using it.
- Please be careful when using the number board and the magnetic number pieces, do not throw or bash it.

Kumon Mission

By discovering the potential of each individual and developing his or her ability to the maximum, we aim to foster sound, capable people and thus contribute to the global community.

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Version: December 2020

Number Board Record Sheet

Name	School Grade

min.	*																		
	10																		
	9																		
	8																		
	7																		
	6																		
	5																		
	4																		
	3																		
	2																		
1																			
Range	100																		
Date	5/6																		
Level#	3A																		

#The Level of Kumon Worksheet (if applicable) *Use if over 10 min.

Number Board Record Sheet

Name	School Grade

	min.	*																		
	10																			
	9																			
	8																			
	7																			
	6																			
	5																			
	4																			
	3																			
	2																			
	1																			
Range			100																	
Date			5/6																	
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