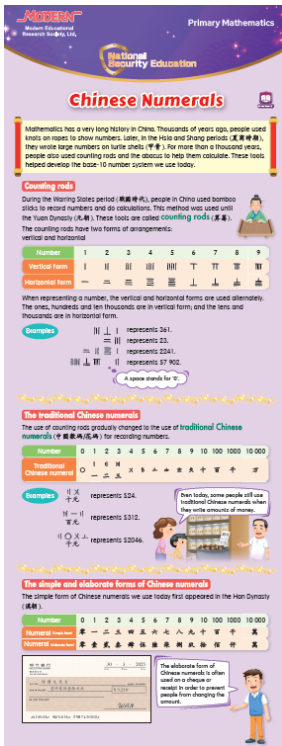


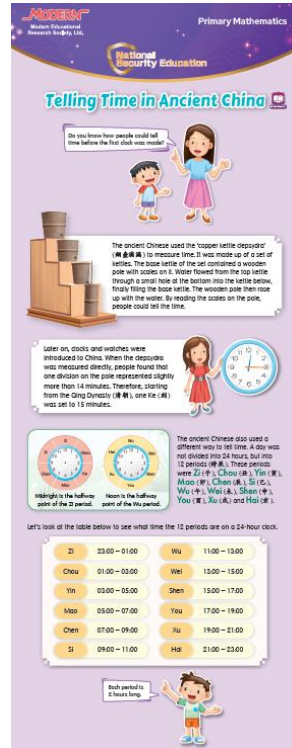
Primary Mathematics – National Security Education Roll Up Stand Overview

1. Chinese Numerals (EMS12)



※ 60(w) x 160(h)cm

2. Telling Time in Ancient China (EMS13)



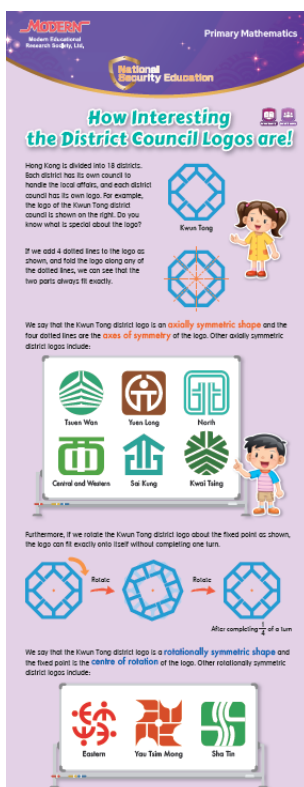
※ 60(w) x 160(h)cm

3. The Origins of Our Calendar Systems (EMS14)



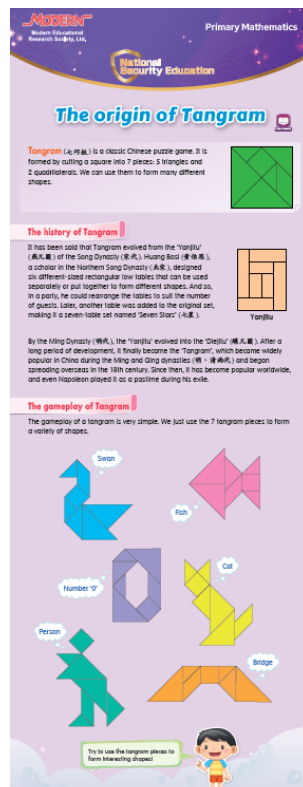
※ 60(w) x 160(h)cm

4. How Interesting the District Council Logos are! (EMS15)



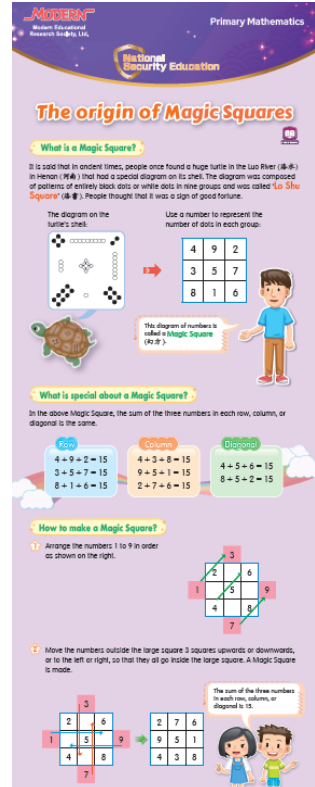
※ 60(w) x 160(h)cm

5. The origin of Tangram (EMS16)



※ 60(w) x 160(h)cm

6. The origin of Magic Squares (EMS17)



※ 60(w) x 160(h)cm

Primary Mathematics – National Security Education Roll Up Stand Overview

7. The secret of the identity card (EMS18)

MODERN Modern Educational Research Society, Ltd. Primary Mathematics

National Security Education

The secret of the identity card

Below is a Hong Kong smart identity card. Its security features not only protect our personal data, but also have a hidden secret.



identity card number

Each identity card number is different. Each number is formed by 1 or 2 letters, 6 digits, and a **check digit** (檢驗碼) inside the brackets.

The first letter or blank space

The second letter

Digits

Check digit

The secret of the identity card is that we can use the check digit inside the brackets to check whether an identity card number is correct.

Let's see how to check whether an identity card number is correct.

① According to the rules below, convert the first and second letters to the corresponding values.

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

For a blank space in the beginning, it represents 0.

② With reference to the identity card number, find the result of the expression below.

$9 \times 1 + 8 \times 2 + 7 \times 3 + 6 \times 4 + 5 \times 5 + 4 \times 6 + 3 \times 7 + 2 \times 8 + 1 \times 9 = 2$

③ Divide the result by 11.

If there is no remainder, the check digit is 0. If the remainder is 10, the check digit is A. Otherwise, we can get the value of the check digit by subtracting the remainder from 11.

For example: 5608213(2)

$9 \times 5 + 8 \times 6 + 7 \times 0 + 6 \times 8 + 5 \times 2 + 4 \times 1 + 3 \times 3 = 251$

$251 \div 11 = 22 \dots 9$

$11 - 9 = 2$

The final result is 2, which is the same as the value of the check digit. Therefore, the identity card number is correct.

※ 60(w) x 160(h)cm