

Primary Mathematics – National Security Education Booth Game Overview

1. Sweet Dumplings (EMG25)

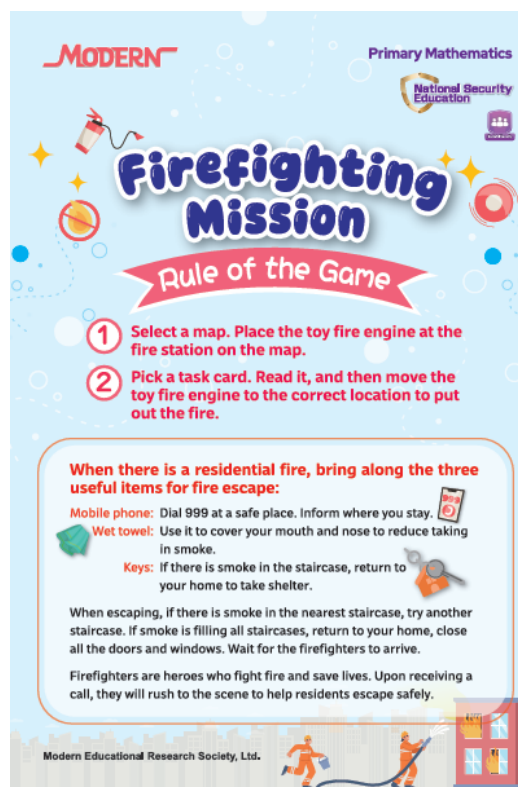


How to play: Spin the Lucky Wheel. When it stops, read out the result. Use the ladle to pick up 4 sweet dumplings from the pot that match the result and place them in a bowl.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm

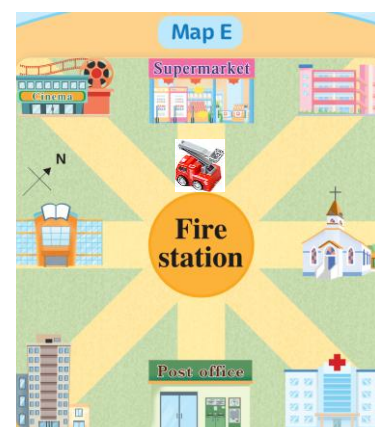
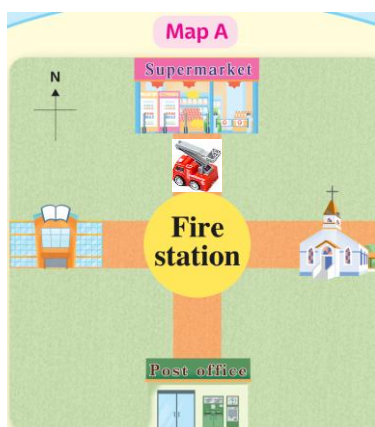
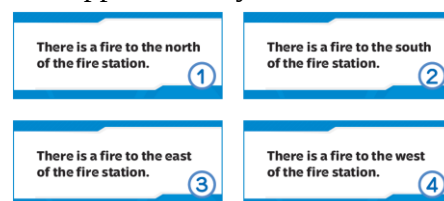
2. Firefighting Mission (EMG26)



Lower Primary Task Card



Upper Primary Task Card



How to play: Select a map. Place the toy fire engine at the fire station on the map. Pick a task card. Read it, and then move the toy fire engine to the correct location to put out the fire.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm

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3. Finding out the Fake Card (EMG27)

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Finding out the Fake Card

Rule of the Game

- Based on the task card, check whether a resident card is genuine or fake.
- Find the fake one among three resident cards.

Protecting personal privacy is very important. Never disclose your card numbers to other people to prevent criminals from using your identity to commit crimes.

For the number on a Hong Kong Smart ID Card, the number or letter inside the brackets is called the check digit. This check digit is obtained through specific calculations and can be used to check if an ID card number is correct.

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Task Card

Add up the first three digits of the number on a resident card. If the units digit of the sum matches the digit inside brackets, the resident card is genuine.

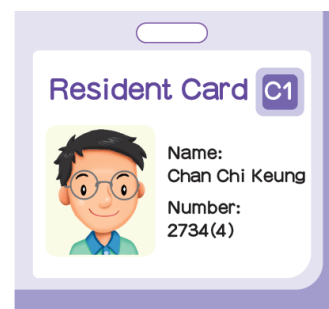
For example: The number on a card is 807(5).
 $8 + 0 + 7 = 15$
 The units digit of '15' is '5'.
 Therefore, this card is a genuine resident card.



Task Card

Add up the first four digits of the number on a resident card and divide the sum by 4. If the quotient matches the digit inside brackets, the resident card is genuine.

For example: The number on a card is 1034(2).
 $1 + 0 + 3 + 4 = 8$
 $8 \div 4 = 2$
 Therefore, this card is a genuine resident card.



How to play: Based on the task card, check whether a resident card is genuine or fake. Find the fake one among three resident cards.

(Versions for Lower Primary and Upper Primary levels are available)

4. Building a Rocket (EMG28)

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Building a Rocket

Rule of the Game

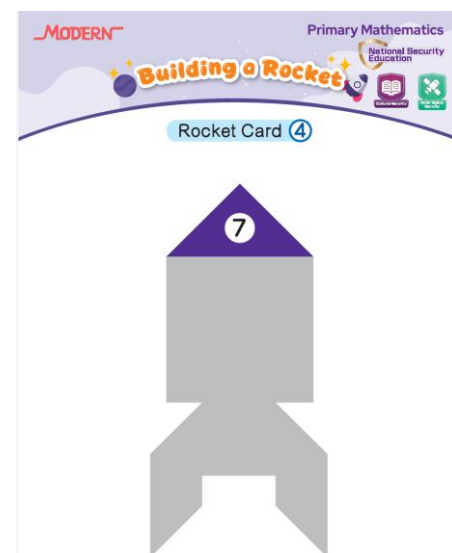
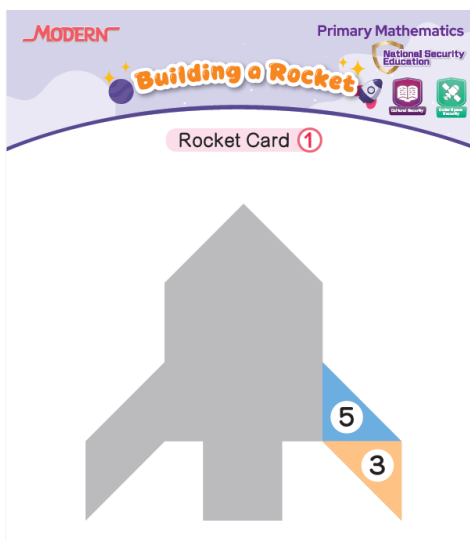
- Select a rocket card.
- Use tangram pieces to build the rocket shown on the card within the given time.

The tangram is a popular shape puzzle among the Chinese people. In each tangram set, a square is cut into seven pieces, which can be arranged into many different shapes.

In 2003, Yang Liwei successfully completed the Shenzhou-5 mission and became the first Chinese astronaut to travel into outer space. This is a major breakthrough in the nation's aerospace technology, and a great contribution to advancing the space exploration and improving the lives of humankind.

In 2026, Lai Ka-ying successfully completed the Shenzhou-23 mission and became the first astronaut from Hong Kong to travel into outer space. She was also the first Chinese female payload specialist to travel into outer space.

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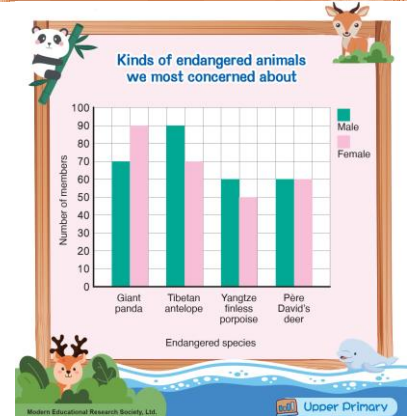
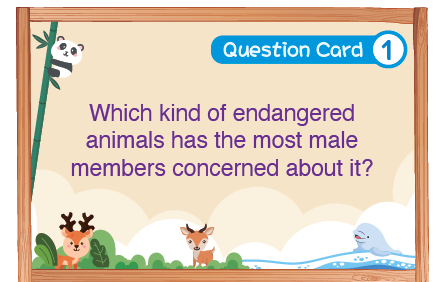
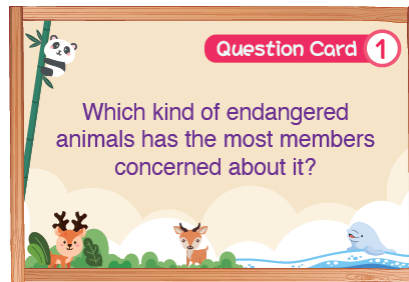


How to play: Select a rocket card. Use tangram pieces to build the rocket shown on the card within the given time.

(Versions for Lower Primary and Upper Primary levels are available)

Primary Mathematics – National Security Education Booth Game Overview

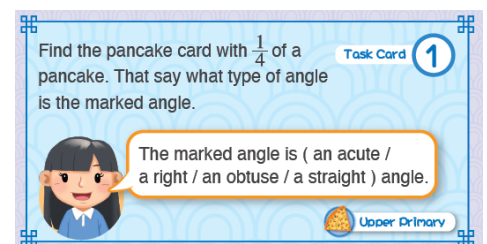
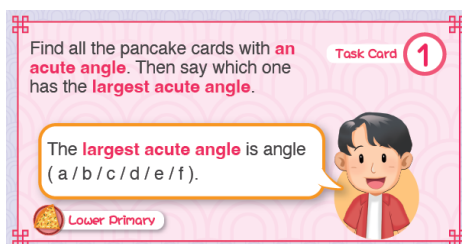
5. Endangered Species (EMG29)



How to play: Draw 2 question cards. Look at the statistical chart and find the answers to the questions. Then show the correct picture cards as your answers.

(Versions for Lower Primary and Upper Primary levels are available)

6. Enjoying Food (EMG30)



How to play: Draw a task card and read out its instructions. Look at the marked angle on each pancake card. Find the correct card according to the task card drawn and tell your answer.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm

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7. Waste Disposal (EMG31)



Waste Disposal

Rule of the Game

- 1 Draw two question cards.
- 2 For each card, choose the most suitable unit to measure the item shown, and read out the whole sentence.
- 3 Place the card into the correct recycling bin according to the type of the item on it.

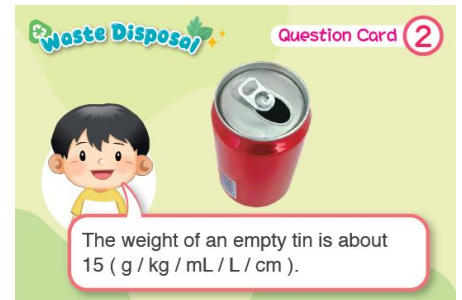
We can reduce rubbish building up and pollution by recycling waste. This helps maintaining ecological stability. Effective recycling and reusing of resources reduce our dependence on raw materials, strengthen national resource security, and prevent social problems caused by lack of resources.

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Waste Disposal Question Card ①

The length of an old envelope is about 22 (km / m / cm / mm / g).



Waste Disposal Question Card ②

The weight of an empty tin is about 15 (g / kg / mL / L / cm).



Waste Disposal Question Card ①

The area of a leaflet is about 600 (cm / m / cm² / m² / cm³).



Waste Disposal Question Card ②

The volume of an adjustable spanner is about 120 (cm² / cm³ / m³ / mL / g).

How to play: Draw two question cards. For each card, choose the most suitable unit to measure the item shown, and read out the whole sentence. Place the card into the correct recycling bin according to the type of the item on it.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm

8. Smart Consumers (EMG32)



Smart Consumers

Rule of the Game

- 1 Draw a shopping card and read out its contents.
- 2 Work out how to buy the required stationery items at the lowest cost. Choose the suitable method of buying (for example, from which store do you buy each item), calculate the result, and read out the total amount you should pay.

Key Points for Smart Spending

- Compare prices carefully:** Always compare the prices of the items in different shops. Items without discounts may be more expensive.
- Develop saving habits:** Think long term when shopping and avoid impulse buying.
- Beware of scams:** Be cautious of prices that seem unreasonably low, to avoid 'losing more than you gain'.

Multiple Payment Methods

In addition to traditional cash payments, we can also use other forms of electronic payments, such as:

- Octopus
- Bank card
- e-wallet

These methods are convenient and secure, but we must also protect our personal information to prevent misuse by criminals.

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Store A

- Ruler: \$9.00
- Ball pen: \$11.00
- Stapler: \$17.00
- Scissors: \$15.00

Store B

- Ruler: \$8.00
- Ball pen: \$13.00
- Stapler: \$14.00
- Scissors: \$10.00

Buy a ruler and a ball pen.

Lower Primary



Store A

- Ruler: \$25.00 for 3
- Ball pen: \$11.90 each
- Stapler: \$17.20 each
- Scissors: \$27.00 for 2 pairs

Store B

- Ruler: \$8.50 each
- Ball pen: \$24.00 for 2
- Stapler: \$34.00 for 2
- Scissors: \$13.90 each

Buy 3 rulers and 2 ball pens.

Upper Primary

How to play: Draw a shopping card and read out its contents. Work out how to buy the required stationery items at the lowest cost. Choose the suitable method of buying (for example, from which store do you buy each item), calculate the result, and read out the total amount you should pay.

※Size 60(w) x 90(h)cm

(Versions for Lower Primary and Upper Primary levels are available)

Primary Mathematics – National Security Education Booth Game Overview

9. Amounts on Cheques (EMG33)

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Amounts on Cheques

Rule of the Game

- 1 Draw a cheque card.
- 2 According to the elaborate form of Chinese numerals shown on the cheque, take out suitable number cards and put them in the blanks on the cheque.

The Chinese numerals that we often see such as '一', '二' and '三' are in the simple form of Chinese numerals. In addition to the simple form, we also have the elaborate form of Chinese numerals, shown in the table below:

Value	0	1	2	3	4	5	6	7	8	9	10	100	1000	10 000
Simple form	零	一	二	三	四	五	六	七	八	九	十	百	千	萬
Elaborate form	零	壹	貳	參	肆	伍	陸	柒	捌	玖	拾	佰	仟	萬

The elaborate form of Chinese numerals are used to prevent dishonest alteration of figures and increase the reliability of documents. They are especially important in legal documents and financial contracts.

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現代銀行
MODERN BANK

30 - 3 - 2026
日 Day 月 Month 年 Year

新付 PAY 智趣有限公司 或持票人 OR BEARER

港幣 HK DOLLARS 伍拾陸元正

\$

00 XX

WAN

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現代銀行
MODERN BANK

30 - 3 - 2026
日 Day 月 Month 年 Year

新付 PAY 智趣有限公司 或持票人 OR BEARER

港幣 HK DOLLARS 柒仟叁佰元正

\$

00 XX

WAN

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How to play: Draw a cheque card. According to the elaborate form of Chinese numerals shown on the cheque, take out suitable number cards and put them in the blanks on the cheque.

(Versions for Lower Primary and Upper Primary levels are available)

10. Shape of Our Flag Challenge (EMG34)

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Shape of Our Flag Challenge

Rule of the Game

- 1 Put all the shape cards face down on the table.
- 2 Read the instruction card to learn about the shape of our national flag.
- 3 Turn over all the shape cards and choose the cards that match the shape of the flag.

The national flag of the People's Republic of China is the Five-star Red Flag.

It is the symbol and sign of the People's Republic of China.

The flag is red and rectangular, and the ratio of its length to its width is 3 to 2. There are five yellow five-pointed stars in its upper-left corner.

Every citizen and organisation should respect and protect the national flag.

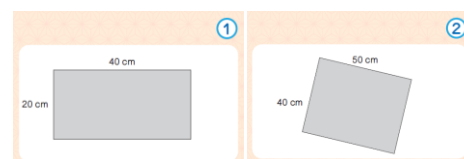
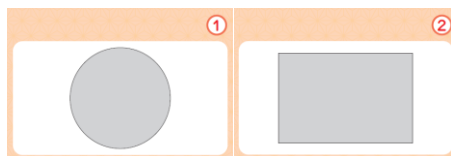
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Our national flag is rectangular in shape.



This is our national flag. It is rectangular in shape and the ratio of its length to its width is 3 to 2.



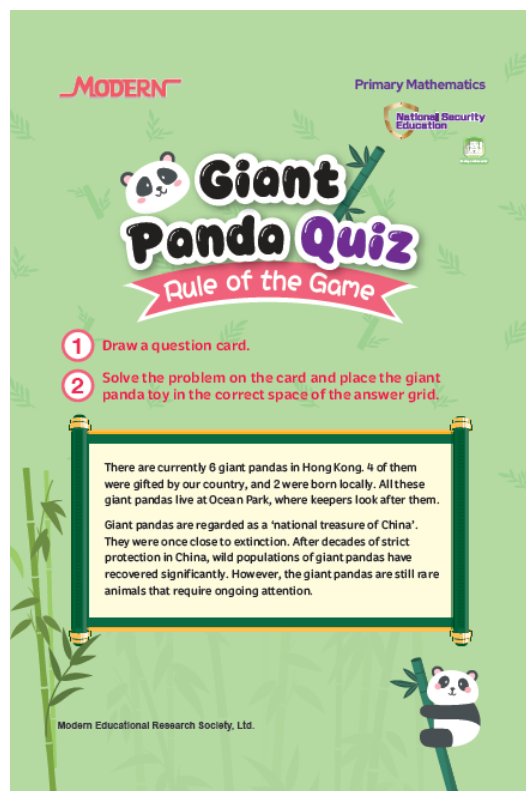
How to play: Put all the shape cards face down on the table. Read the instruction card to learn about the shape of our national flag. Turn over all the shape cards and choose the cards that match the shape of the flag.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm

Primary Mathematics – National Security Education Booth Game Overview

11. Giant Panda Quiz (EMG35)



MODERN Primary Mathematics
National Security Education

Giant Panda Quiz

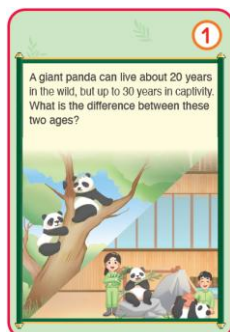
Rule of the Game

- 1 Draw a question card.
- 2 Solve the problem on the card and place the giant panda toy in the correct space of the answer grid.

There are currently 6 giant pandas in Hong Kong. 4 of them were gifted by our country, and 2 were born locally. All these giant pandas live at Ocean Park, where keepers look after them.

Giant pandas are regarded as a 'national treasure of China'. They were once close to extinction. After decades of strict protection in China, wild populations of giant pandas have recovered significantly. However, the giant pandas are still rare animals that require ongoing attention.

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1

A giant panda can live about 20 years in the wild, but up to 30 years in captivity. What is the difference between these two ages?



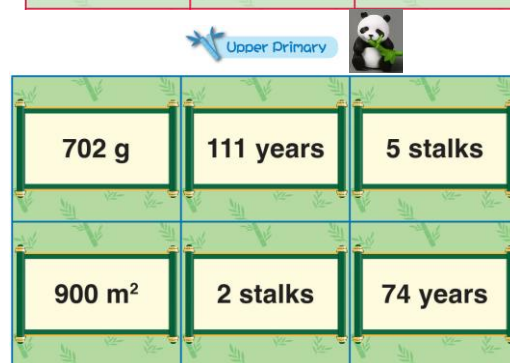
1

A giant panda 35 years of age is equivalent to a human 105 years of age. In 2015, Ocean Park celebrated Giant Panda Jia Jia's 37th birthday. What human age was that equivalent to?



Lower Primary

12 stalks	7 kg	234 g
10 kg	10 years	10 g



Upper Primary

702 g	111 years	5 stalks
900 m ²	2 stalks	74 years

How to play: Draw a question card. Solve the problem on the card and place the giant panda toy in the correct space of the answer grid.

(Versions for Lower Primary and Upper Primary levels are available)

12. AI Command Challenge (EMG36)



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National Security Education

AI Command Challenge

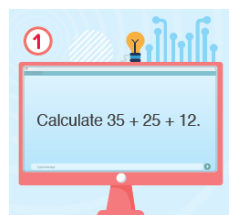
Rule of the Game

- 1 Draw 4 cards from the set of 6 AI command cards.
- 2 Decide whether AI can give the correct answer to each command immediately.
- 3 Answer the questions for the commands that AI can immediately give the correct answers to.

Artificial Intelligence (AI) means computers can think and solve problems like humans. To get correct answers, we must give clear and simple instructions, because AI can only respond according to 'known knowledge + information provided by us'.

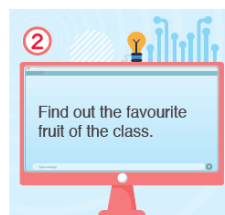
Artificial intelligence security means protecting systems from being attacked, and ensuring fairness, transparency and confidentiality. Every country in the world requires that AI must be safe, follow rules and be helpful to people. Hong Kong also has guidelines reminding us to use AI legally and properly, never for harmful purposes.

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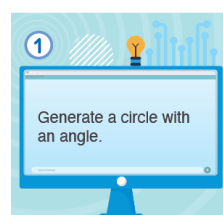
1

Calculate $35 + 25 + 12$.



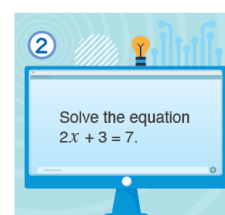
2

Find out the favourite fruit of the class.



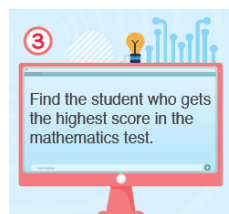
1

Generate a circle with an angle.



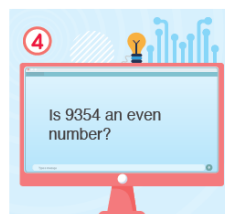
2

Solve the equation $2x + 3 = 7$.



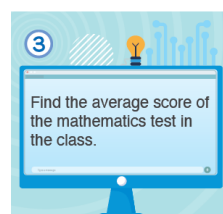
3

Find the student who gets the highest score in the mathematics test.



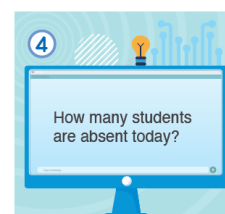
4

Is 9354 an even number?



3

Find the average score of the mathematics test in the class.



4

How many students are absent today?

How to play: Draw 4 cards from the set of 6 AI command cards. Decide whether AI can give the correct answer to each command immediately. Answer the questions for the commands that AI can immediately give the correct answers to.

(Versions for Lower Primary and Upper Primary levels are available)

※Size 60(w) x 90(h)cm