

創・造未來—— INNOVATIVE PATHWAY

Activity Sheet

Name: _____

Class: _____

INNOVATIVE INDUSTRY GAMBIT

Explore the relevant exhibits in the "Innovative Pathway: Hong Kong's New Era of Industry" exhibition and complete the mission cards on pages 5 to 8 of the activity sheet to create your personalised board game!

Background

Hong Kong is actively pursuing new industrialisation, committed to developing and enhancing innovation and technology ecosystem. As a technology consultant on this journey, you will deliver cutting-edge solutions to promote waste-to-energy initiatives, green technology and advanced manufacturing practices. Through your contributions, you will shape a new era of industry in Hong Kong.

Goal

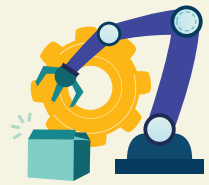
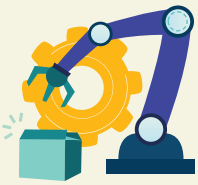
Each token represents a player. Move your token from the starting point to or beyond the finish line. The player with the most stars when all players cross the finish line is crowned the champion.

Preparing the Game

1. Each player should find out the relevant information from the exhibits and fill in the answers in the spaces provided on pages 5 to 8 of the mission cards. Then, cut out a total of 12 mission cards.
2. Cut out the template on page 9 to create the chess tokens and a die.
3. Combine the game boards from pages 2 and 3 to start playing. A maximum of four players can share one set of game materials (chess tokens and the die).

Rules

1. Each player starts with 12 mission cards. Sort these cards by the symbols on their backs. Then flip them face down and shuffle each categorised pile thoroughly.
2. To determine the play order, each player rolls the die once. The player with the highest roll goes first, with the others following in descending roll order.
3. On your turn, roll the die and advance your token the number of spaces indicated. When you land on a space, draw a card that matches the symbol of that space. This card will grant you a certain number of "stars" or instruct you to perform a specific action.
4. The game concludes when all players have crossed the finish line. At this point, tally up the "stars" each player has collected. The player with the most "stars" is declared the winner of the game.

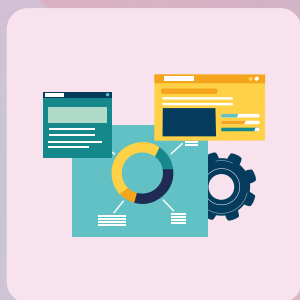


Skip a turn



Starting
point
/
Finish
line





Find out the relevant information in the designated area of the exhibition and fill in the answers in the spaces provided to create your personalised mission cards!



◀ please find out the answers in the **Research and Development** area



◀ please find out the answers in the **Industry 4.0** area





**Mission
Card**



**Mission
Card**



**Mission
Card**



**Mission
Card**



**Mission
Card**



**Mission
Card**

Launching G2G _____
to recycle old clothes into
new clothing for a more
sustainable tomorrow.



To combat global warming, you will use
_____. This material can be
easily painted on building exteriors and
roofs, achieving "electricity-free cooling".



Generating electricity from
_____ produced by the
anaerobic digestion of organic waste.



Introducing "Food TranSmarter", an
innovative solution for food waste
management that converts food waste into
_____, which can improve _____
and _____ efficiency.

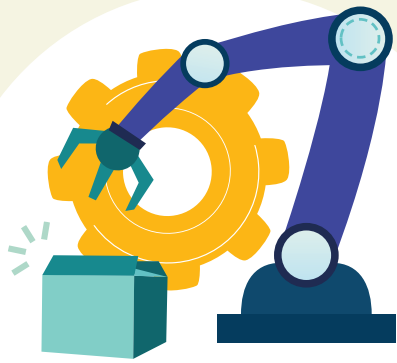


Note that high-protein foods, such as meat
or seafood, emit _____ during the
spoilage process. Introducing Smart Food
Label to detect the concentration of this
chemical, thereby determining whether
the food is safe for consumption.

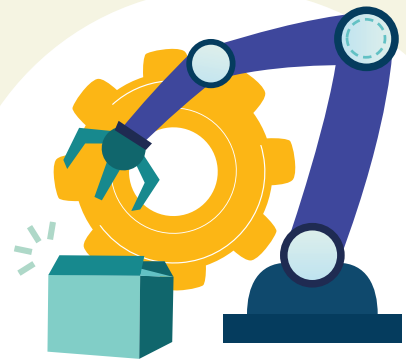


Utilising advanced aseptic packaging
technology, integrated high-temperature
short-time pasteurisation, low-temperature
sous vide cooking, and _____,
allows for food preservation at room
temperature for an extended period.

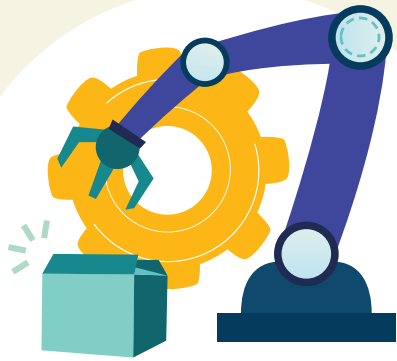




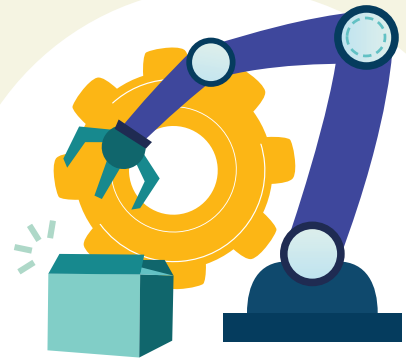
**Mission
Card**



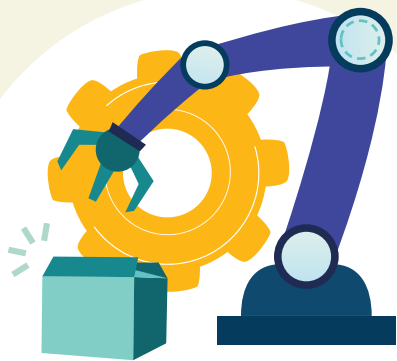
**Mission
Card**



**Mission
Card**



**Mission
Card**



**Mission
Card**



**Mission
Card**

To implement corporate social responsibility, you will organise STEM-related activities at school to spark students' interest in science and technology. Please provide one example.



Using _____ to provide customised medical-grade metal implants and surgical assistance tools. This technology can enhance patient recovery rates and improve surgical accuracy.



With the rapid development of artificial intelligence and data science, _____ are used to perform some high-intensity and dangerous tasks.



To promote the widespread use of green energy and achieve carbon neutrality, you will be engaging in the research and development of hydrogen fuel cells. Hydrogen fuel cells generate electricity using _____ and _____, with no air pollutants produced in the process.



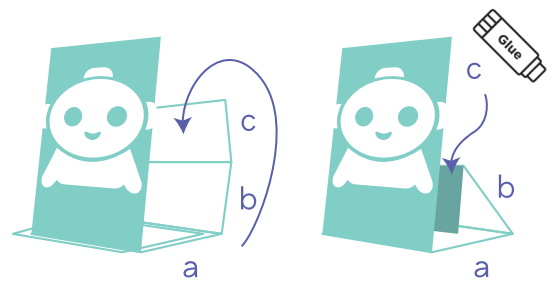
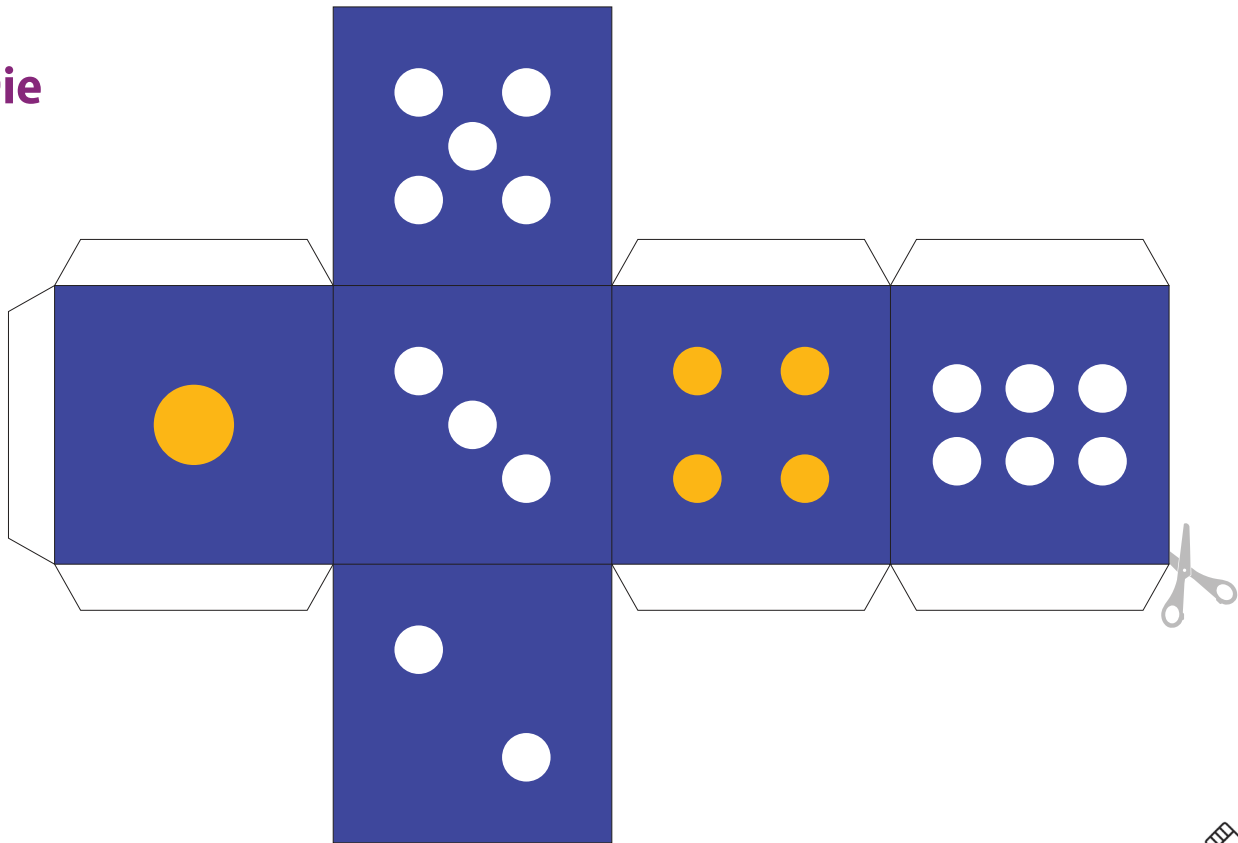
To implement corporate social responsibility, you will visit schools to share and introduce the applications of hydrogen energy. Please provide two examples of hydrogen applications.



Conducting in-depth research on third-generation semiconductors, such as _____, and establishing a pilot facility with partners to apply the research breakthroughs to 5G communication and electric vehicles.



Die



Chess Tokens

