

SIEMENS

Ingenuity for life

Expo Explorers

Activity Pack



إكسبو 2020
دبي، الإمارات العربية المتحدة
DUBAI, UNITED ARAB EMIRATES

SIEMENS

Ingenuity for life

شريك أول رسمي | OFFICIAL PREMIER PARTNER

Activities

In the next few pages, we'll need your help.

The characters you've met are all a bit stuck.

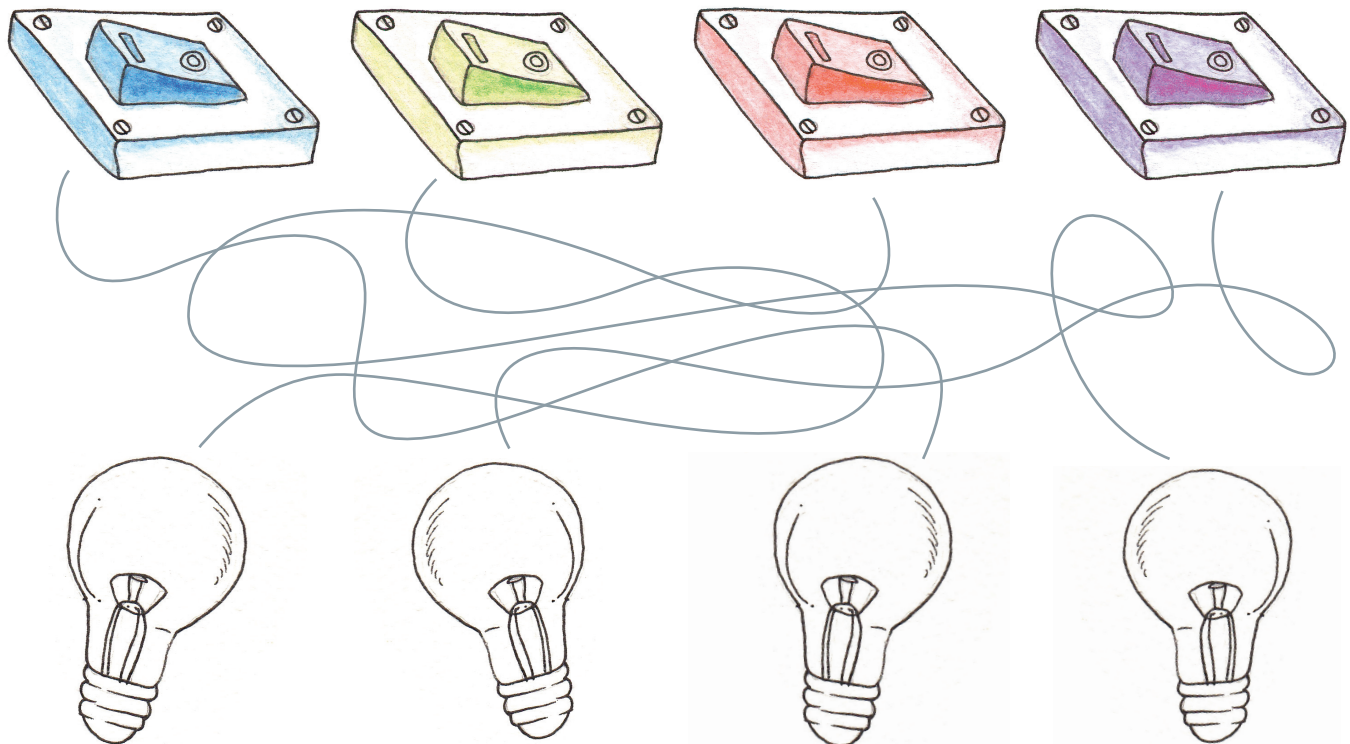
They need your ideas and your creative thinking.

Werner von Siemens, is first up:

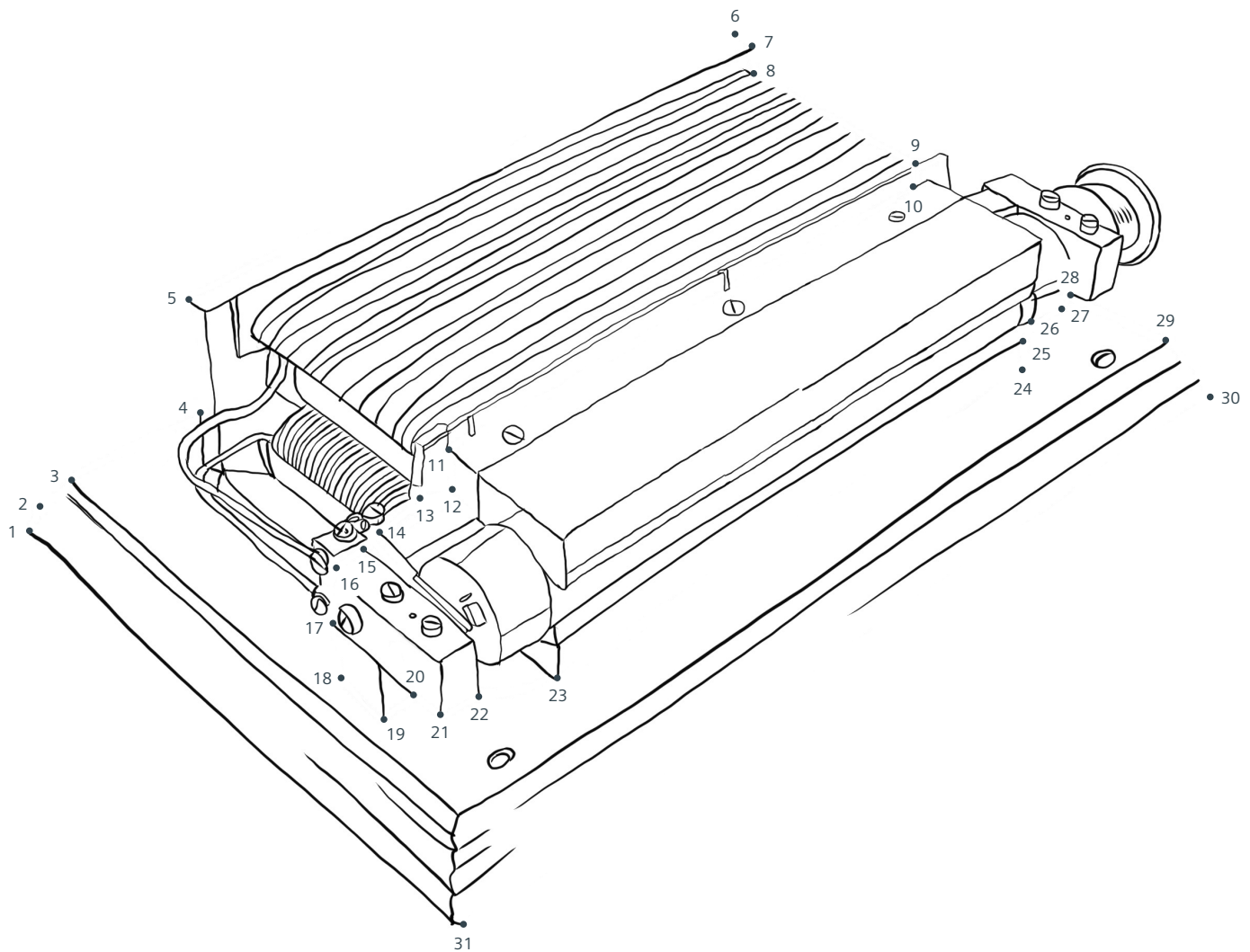
"You see, the thing is, I'm getting a bit old.

And I seem to have forgotten which switch is which."

Can you help Werner and color in the bulbs
so that they match the switches they're connected to.



"I have these drawings, from a few years back,
but they're missing a few bits. I can't remember what."
Try to connect the dots, number by number.
Can you tell what invention he was inventing?



Answer: The machine you're drawing is called a dynamo, which was invented by Siemens to create electricity. It was the first of its kind. What an achievement to reveal to the world the wonder of electricity!

Mr. Hamwi has given the kids gifts!
Two lunchboxes full of food.
All that you see was first announced at Expos.
There's a lunchbox for each kid,
but they're not the same.
Oh dear! Oh no! We need your help.
Can you spot the differences in the two lunchboxes?



The minds at Expo have a challenge ahead.

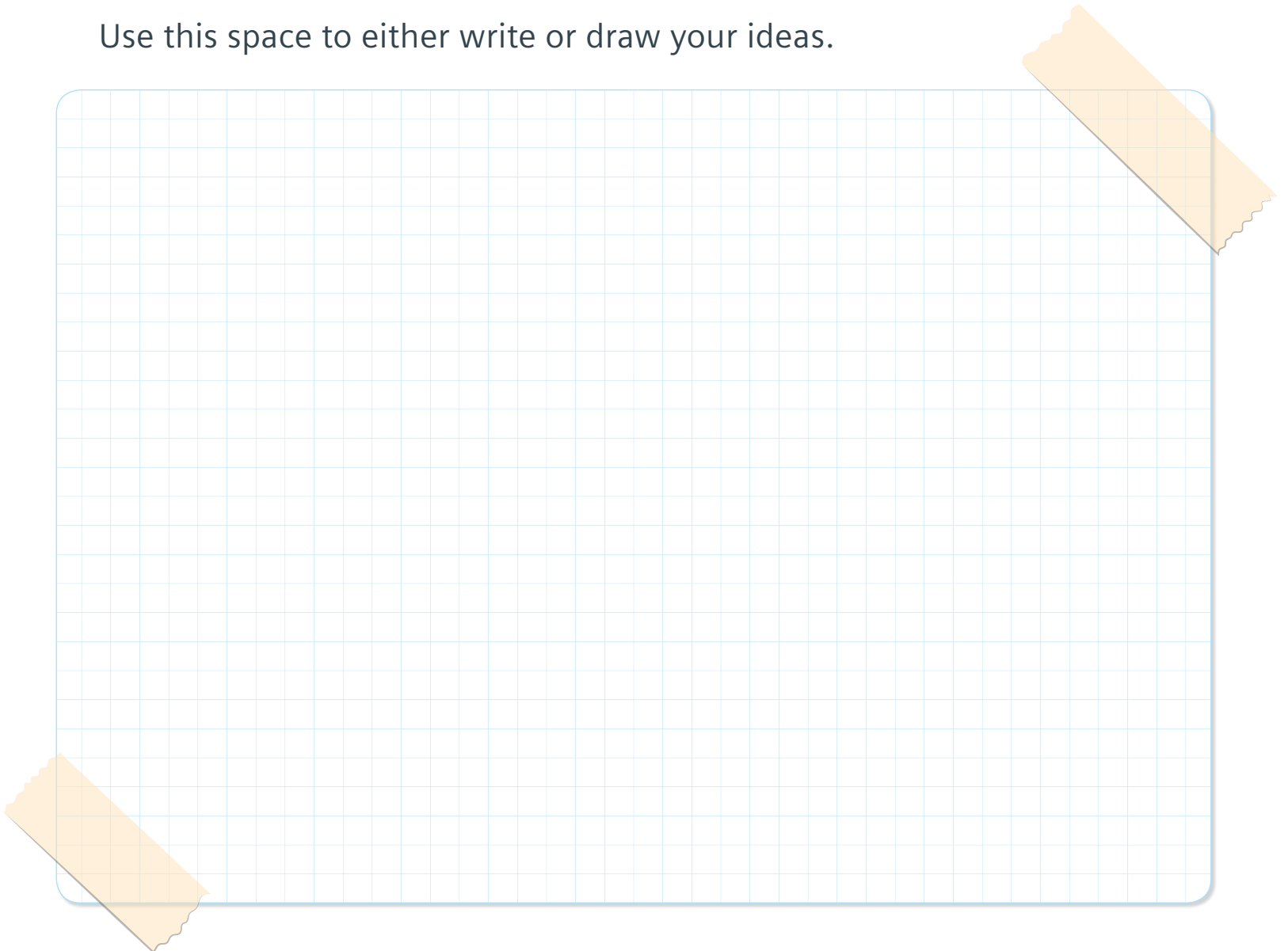
There are a lot of hungry people across the world.

Populations are growing but the planet is not.

We need to make sure we don't run out of food.

Do you have any ideas of how we can help
get food from nature without using it all up?

Use this space to either write or draw your ideas.



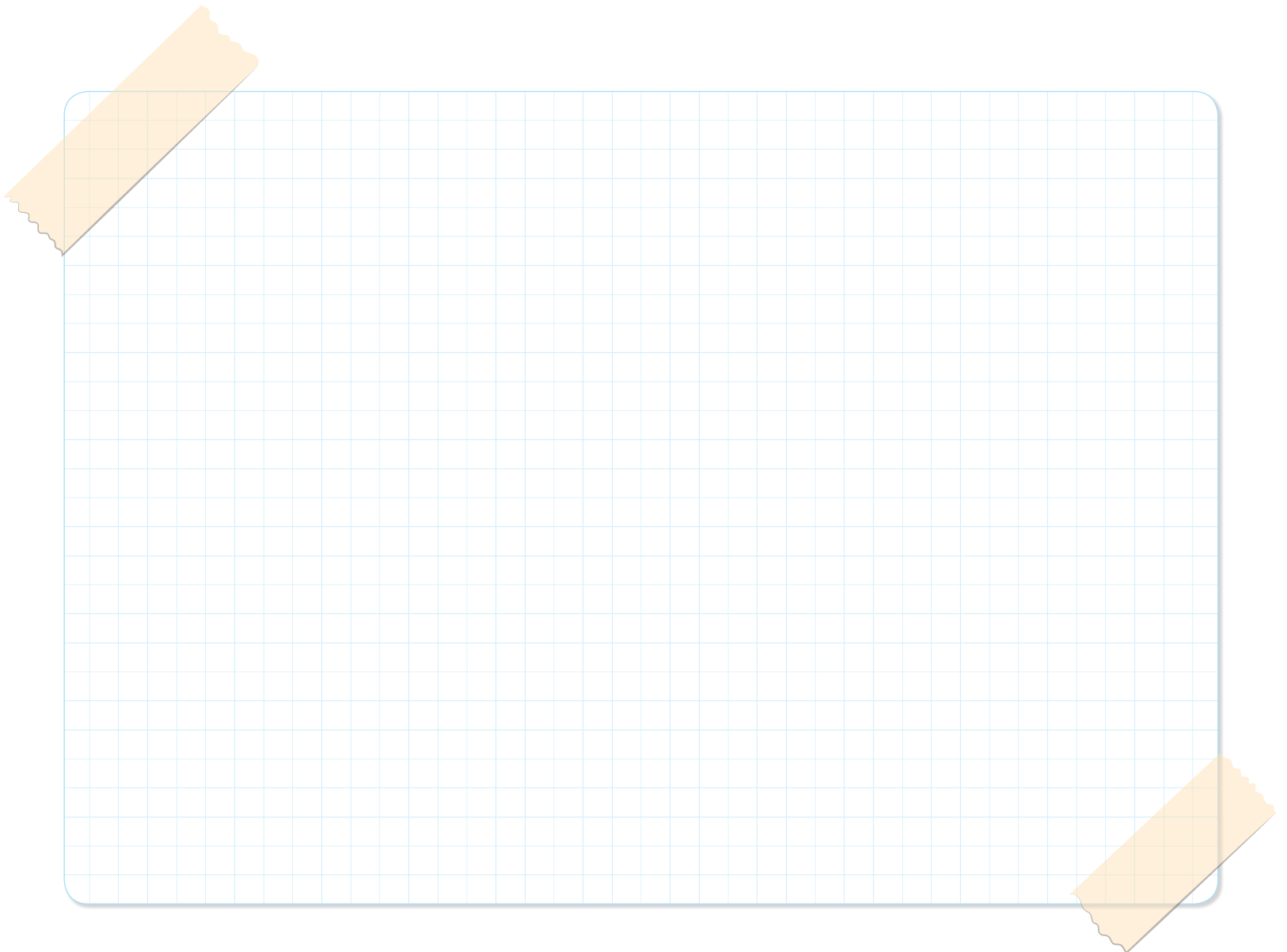
“Buildings that talk?” Mr. Eiffel can’t imagine.

“What would they look like? And how would they work?”

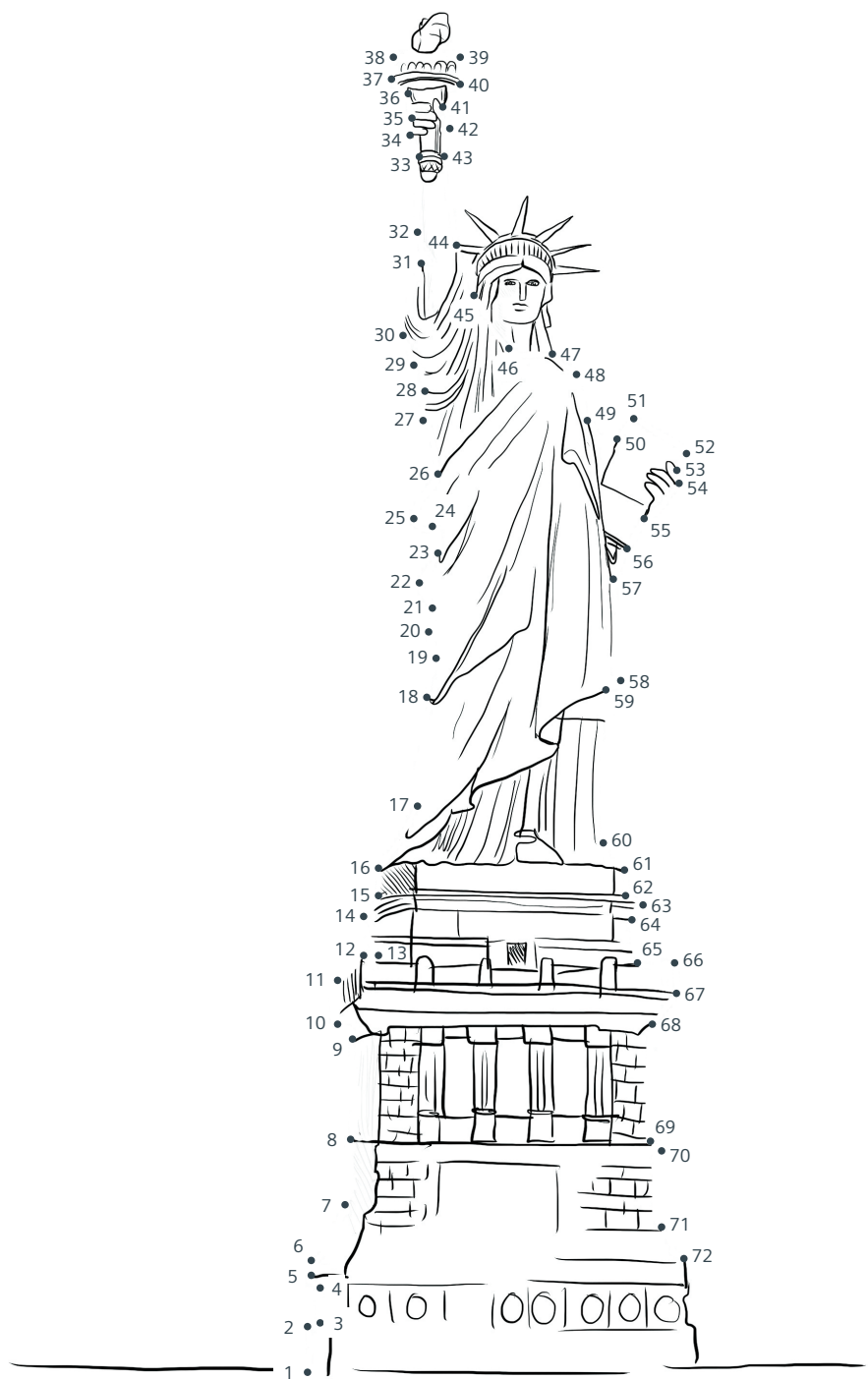
Can you help give him an idea by drawing
a future building and explaining how it works?

Try to be creative, and do your best to think big!

There’s no wrong answer when it comes to designing.



Connect the dots, number by number,
to discover a statue that was revealed at an Expo



Answer: The Statue of Liberty! Did you know that the statue's head was first shown at an Expo?
It was built in France and displayed at their World Expos, then shipped to America as a gift to the New York!

At Expo 2020 Dubai, there will be a new fuel
that can power vehicles like cars and buses.

It's called 'green hydrogen' and people from Siemens,
Expo 2020 Dubai and DEWA will use sunlight to make it.

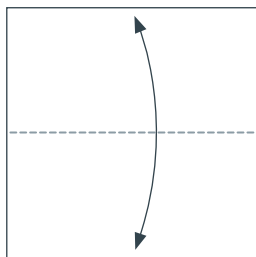
Sarah and Zain are on a hydrogen-powered bus
right now, but they need your help to
find their way to their dad!



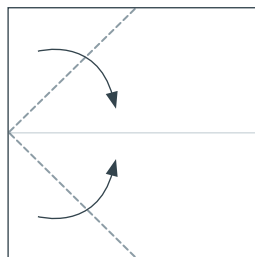
The future of transport is so exciting,
why don't you get involved and start inventing too!

Below are instructions for some
paper airplanes. Start with these,
then try to make your own! Be sure to
use paper that has been used before.

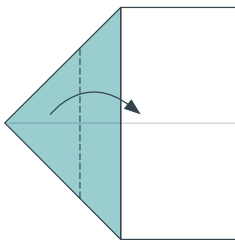
By not wasting paper, you'll save some trees!



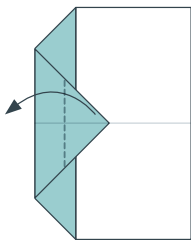
1 Fold in half to make creases and fold back.



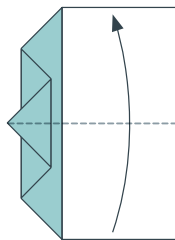
2 Fold to meet the center line.



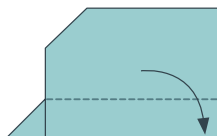
3 Fold in the dotted line.



4 Fold in the dotted line.



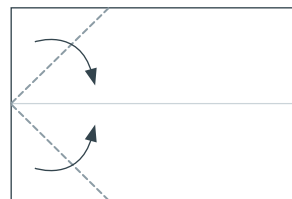
5 Fold in half.



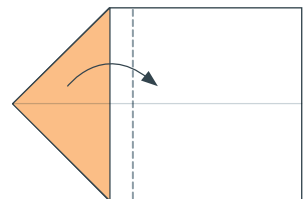
6 Fold both sides in the dotted lines and adjust in 90 degrees.



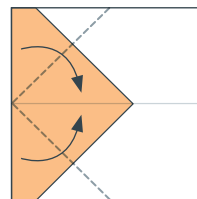
7 Finished.



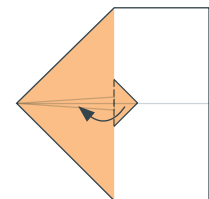
1 Fold in the dotted line to meet the center line.



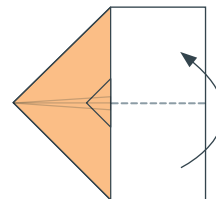
2 Fold in the dotted line.



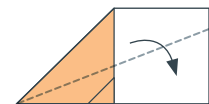
3 Fold in the dotted line to meet the center line.



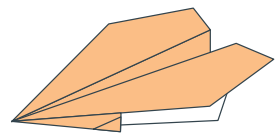
4 Fold in the dotted line.



5 Fold backward in the dotted line.



6 Fold in the dotted line.



7 Finished.

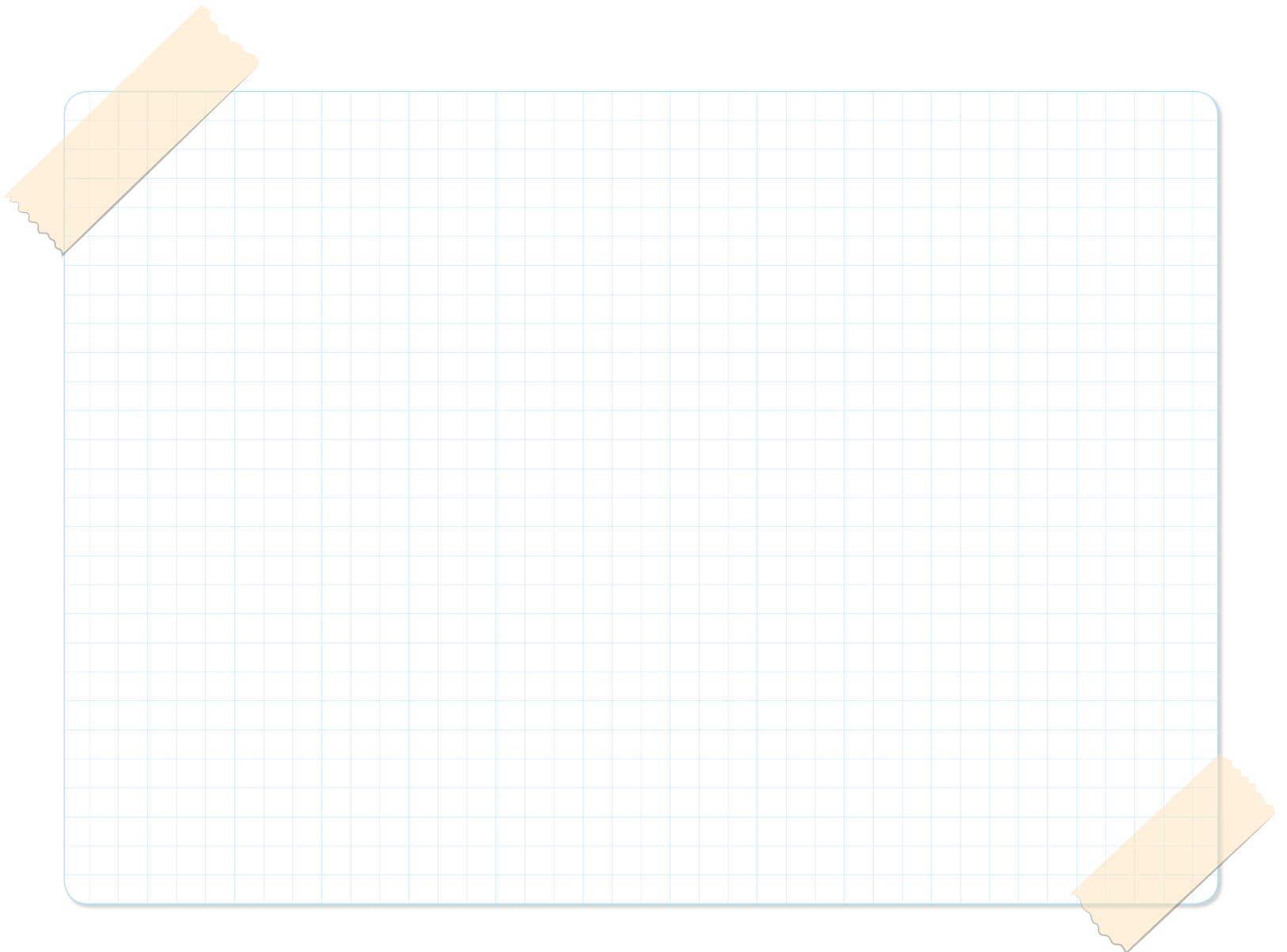
These days we have so many helpful inventions.

But there's always another, waiting to be built.

What kind of gadget would you create?

How would it work? Who would it help?

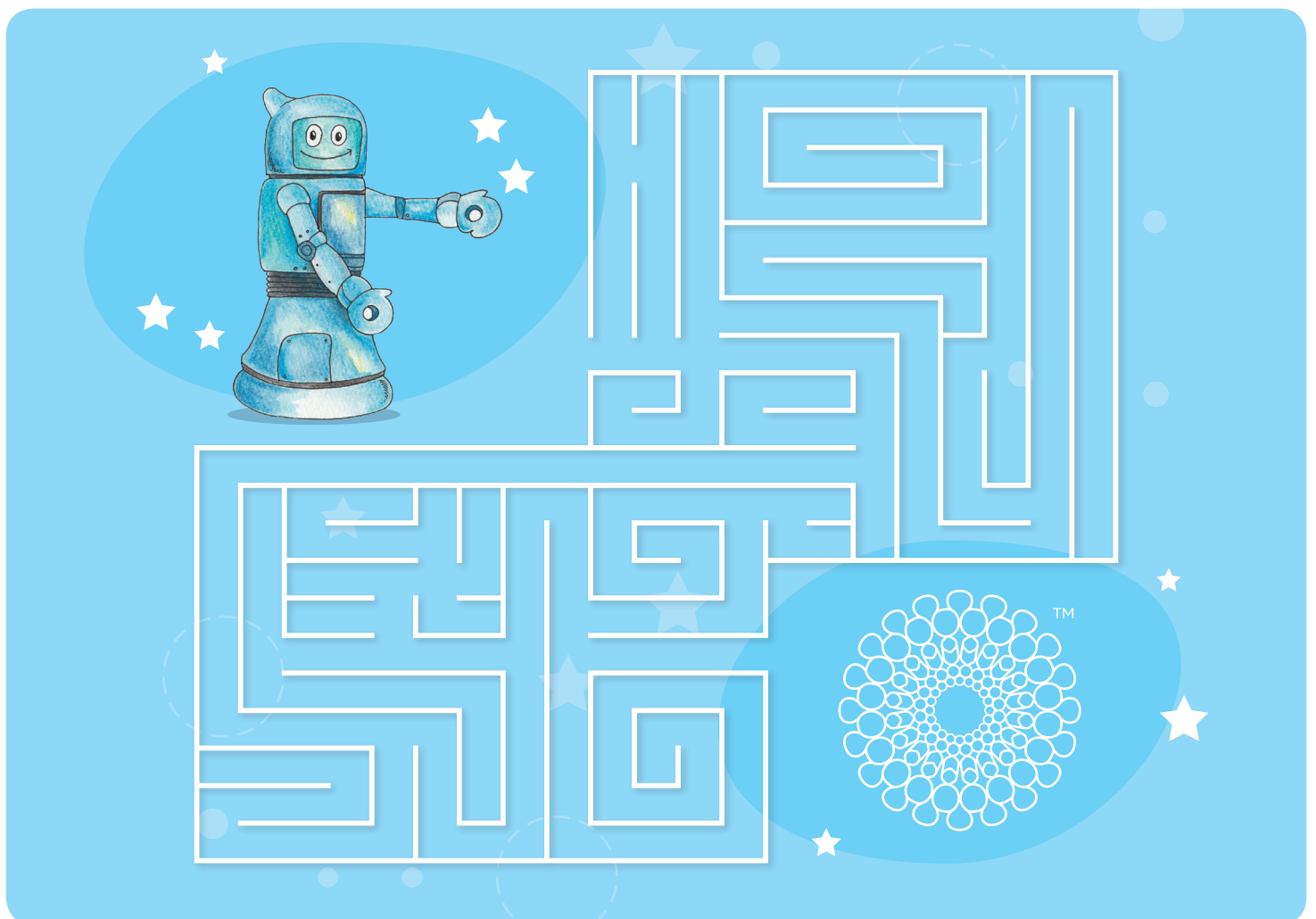
Try drawing it and write a description
of your gadget and who would use it.



Hai Bao is a robot that needs some help
to direct the guests to where they should go.

He knows the route to the Shanghai Expo,
but gets a bit lost when he's in Dubai.

Can you help him find the way
to the Expo gates from Dubai Creek?

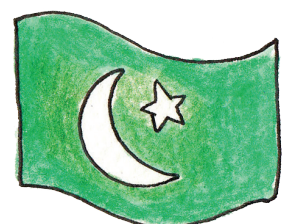
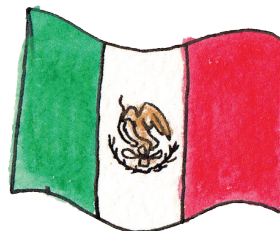
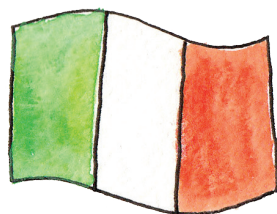
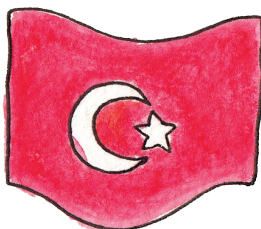
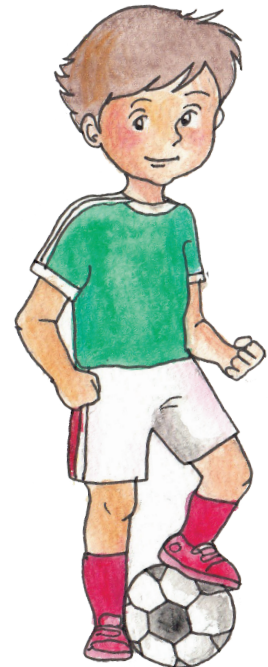
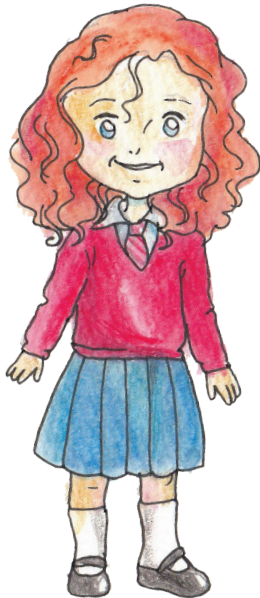


Cara's from Ireland, Aadi's from Pakistan.

Yusuf's from Turkey, Pablo's from Mexico.

All sorts of names, from all sorts of places.

Can you match these kids with their country's flag?



The team at Siemens is thinking about the future,
and creating inventions to help run our cities better.

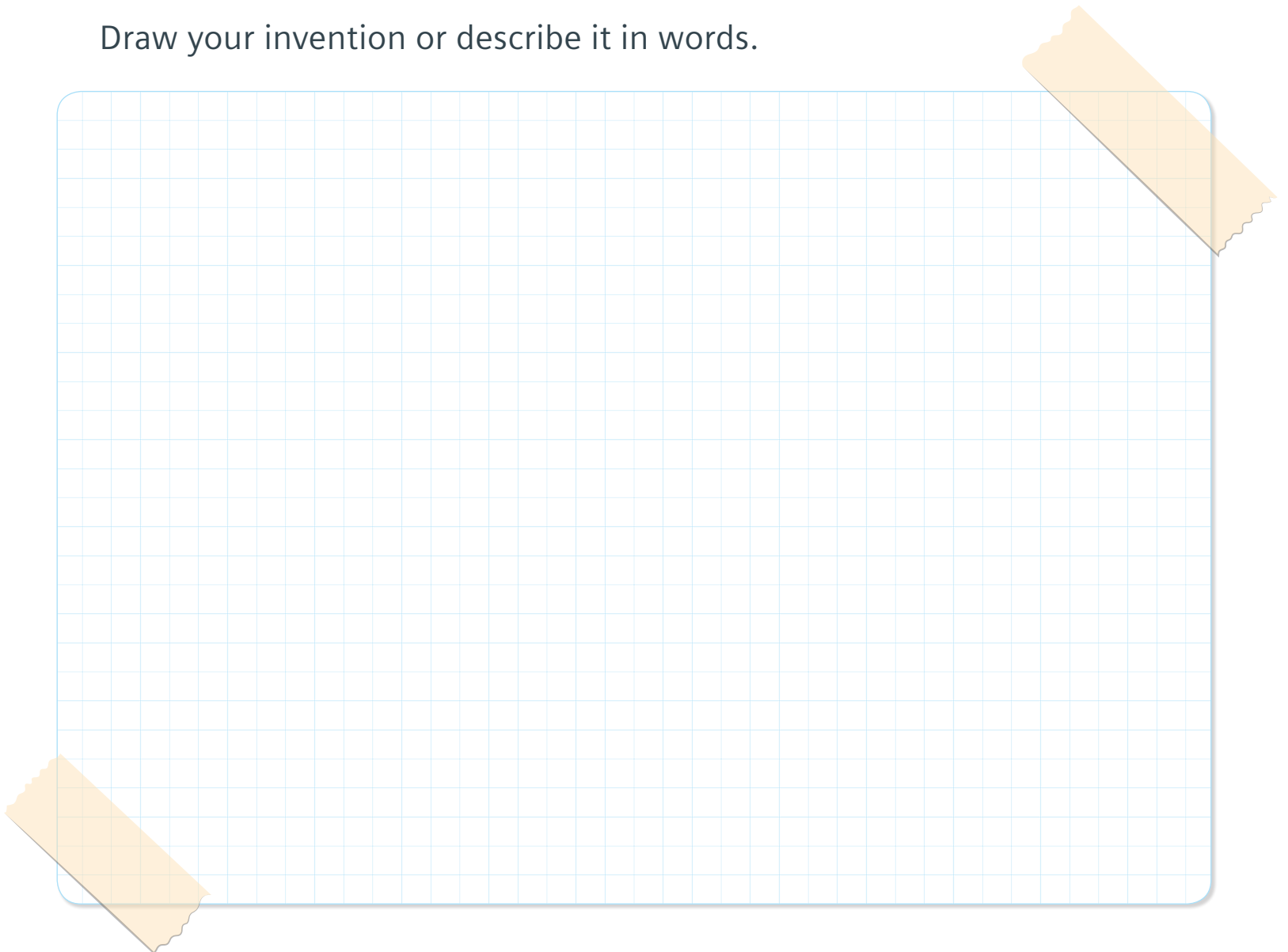
We're always looking for great new ideas.

Do you have any ideas we could use?

Think of a problem that city people face
when at work, at home or playing.

Now think of an invention that could solve this problem.

Draw your invention or describe it in words.



Expo 2020 is almost here.

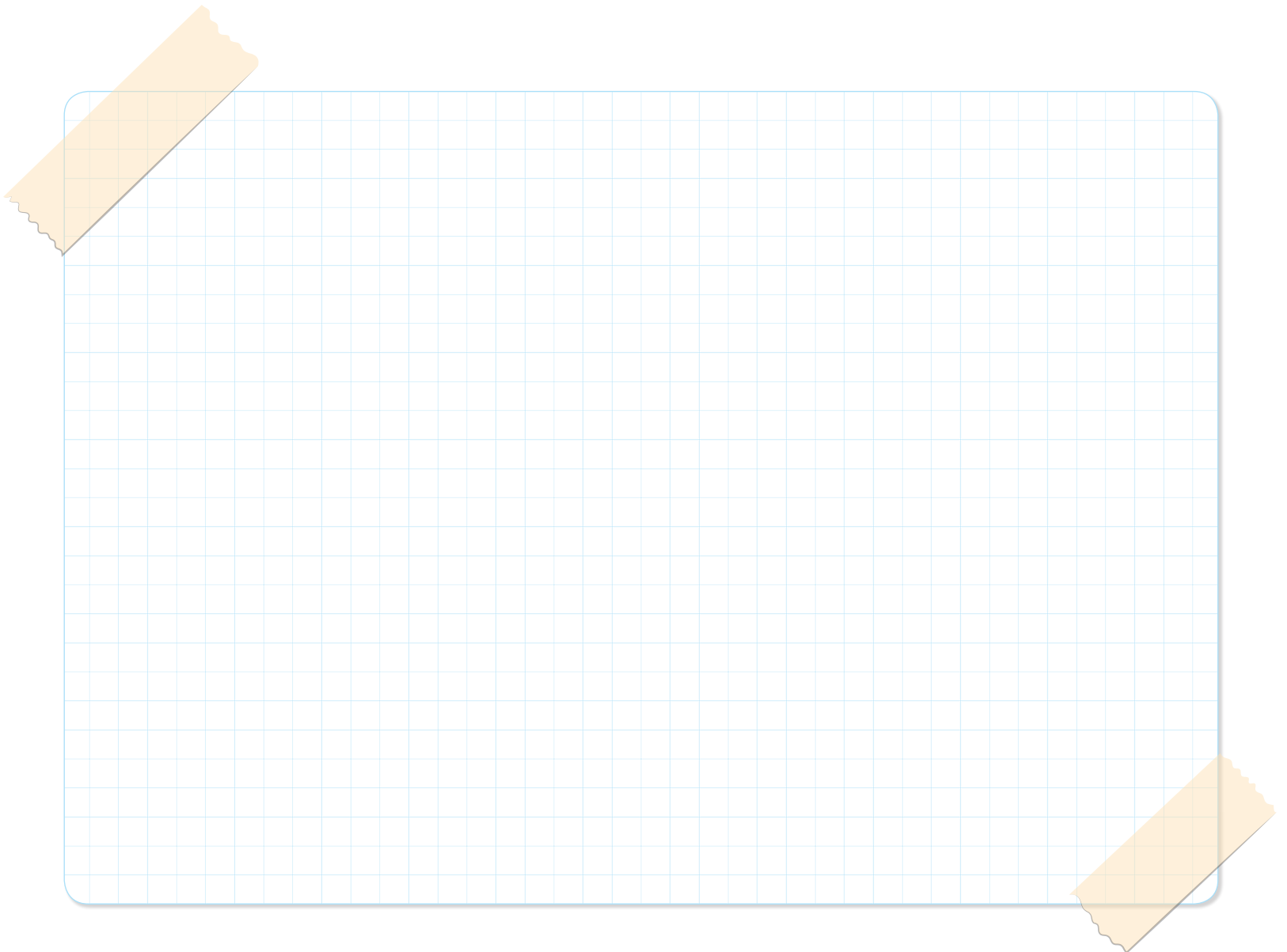
People are busy preparing for the event.

What are you most excited about?

Imagine being at this World Expo.

Use the space below to draw what you imagine.

Who are you with? What are you doing?

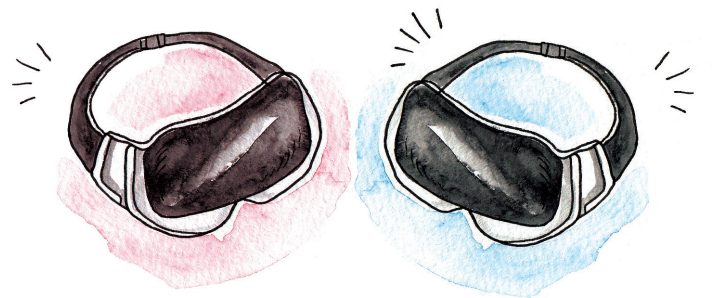


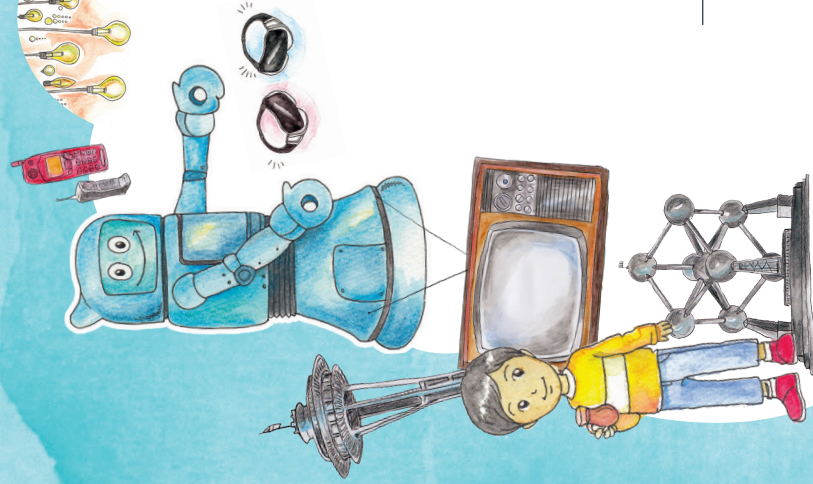
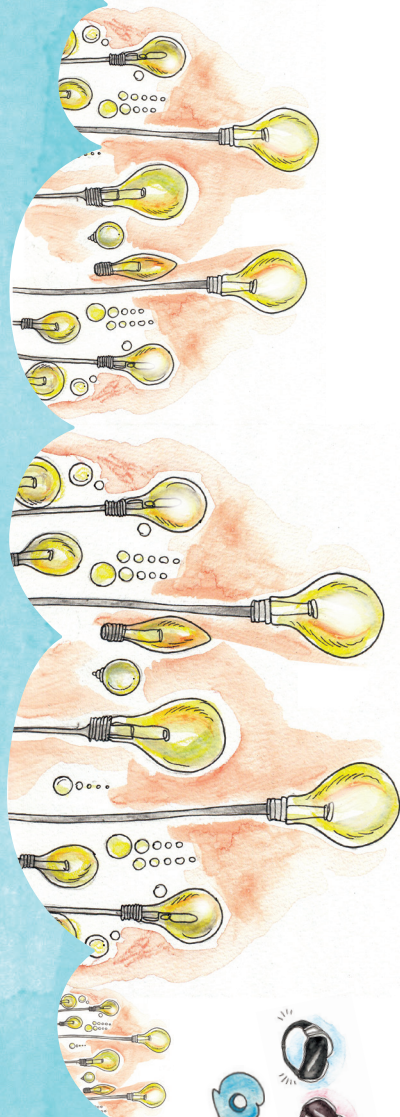
Today's journey was absolutely fantastic,
but if it weren't for you, we would have been stuck!

Thanks for your help: for connecting the dots,
spotting the differences and showing the way.

At the end of this book you'll find a page
with a certificate for all your hard work.

Fill it out and write the names
of anyone who helped you along the way.



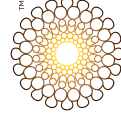


THIS CERTIFIES THAT

is an Expo Explorer

AND A GREAT BIG THANKS TO

FOR HELPING OUT



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