

Names: _____ Date: _____

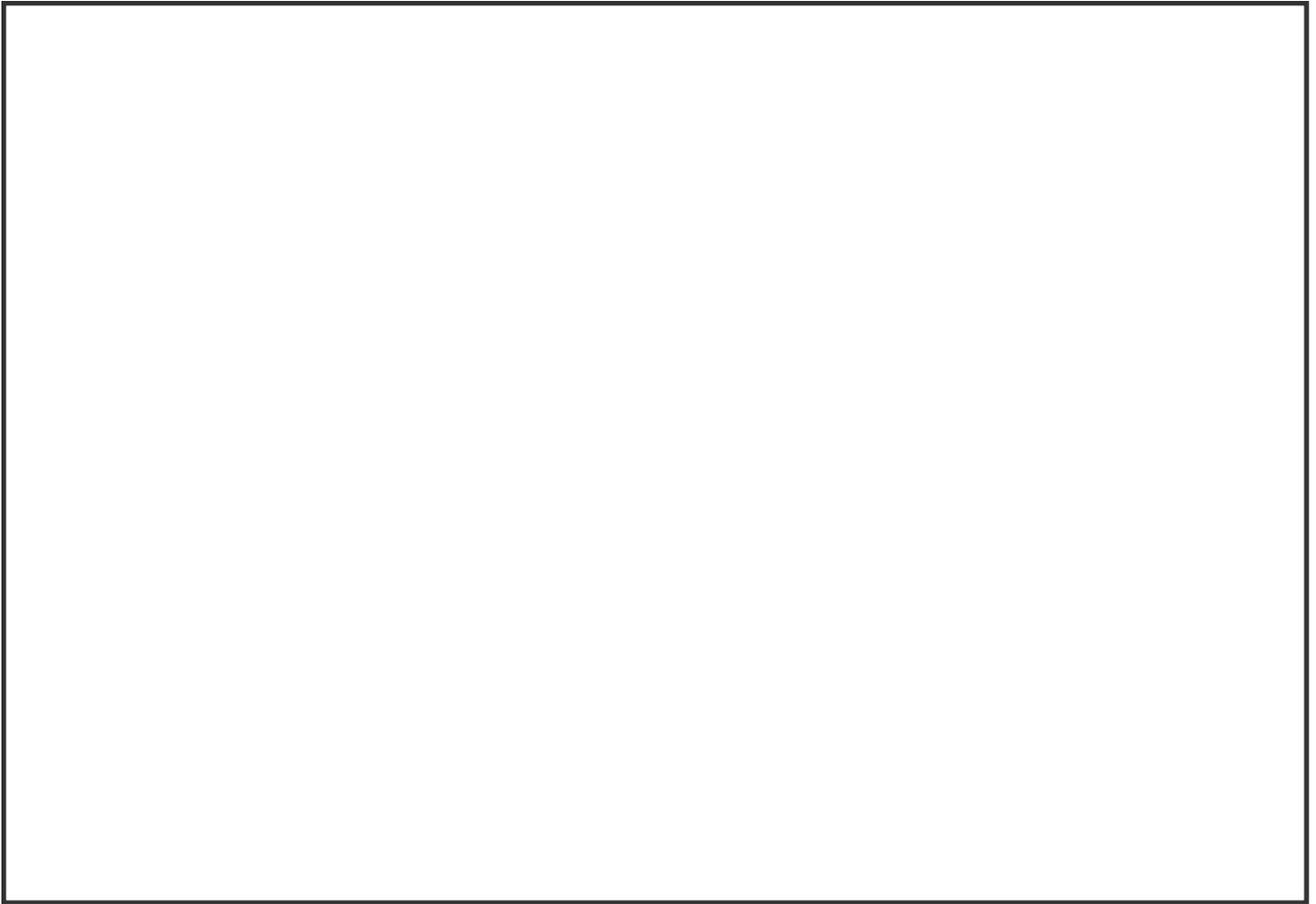
Challenge Sheet

Choose a technology to improve.

Brainstorm ways to improve the technology.
Use the ideas on your Identifying Changes Chart.

Choose your best idea.

Sketch your improved technology.



What changes did you make?

How did the technology improve?

Name: Completed Example

Identifying Changes Chart

Here are some examples that can be used for the activity. Additional examples can be found in the *Technology Then and Now* book.

What is the technology?	How did it change?	How did the change improve the technology?
Cell phone	Made smaller	Easier to carry anywhere
Drum	Changed materials	Made different sounds
Fire truck	Added engine Added hoses and ladder	Gets to fires more quickly Easier to fight fire
Car	Added roof and doors Made larger	Safer to ride in Easier to ride in
Tennis racket	Changed materials	Easier to swing and to hit the ball
Wooden bench	Changed material and shape	Easier and safer to sit on
Television	Made bigger	Easier to see

Name: _____ Date: _____

Identifying Changes Chart

What is the technology?	How did it change?	How did the change improve the technology?

Name: _____ Date: _____

Comic Strip Planning Sheet

Create a comic strip that shows how you use technology in a day! Your comic strip should show a day in your life, from morning to night.

- Your comic strip needs six pictures.
- You need at least one picture that shows morning, one that shows afternoon, and one that shows night. The other three pictures can be your original ideas!
- Each picture needs to show you using a technology.
- Each picture needs a text bubble. Check the examples for help.

Time of day	Write the technology you are showing	Sketch your picture. Don't forget the text bubble!
Morning		

Time of day	Write the technology you are showing	Sketch your picture. Don't forget the text bubble!
Afternoon		
Evening		

Name: _____ Date: _____

Comic Strip Template

Name: _____ Date: _____

Prediction Sheet

The technology I am examining is: _____

What does the technology do?

Time to predict!

Part	What do you predict might happen if this part was missing?

Name: _____ Date: _____

Made of Parts Worksheet

My technology is: _____

It makes life (circle one):

Easier

Safer

More fun

What does the technology do?

Draw a diagram of your technology. Label its parts.

Explain what each part of your technology does.

Part	What does it do?

Name: _____ Date: _____

My Technology Idea Planning Sheet

Think like an engineer! Create a new technology that solves a problem or meets a need. Your technology must make life easier, safer, or more fun!

My ideas for a new technology are:

My best idea is: _____

What problem does your technology solve or what need does it meet?

My technology makes life (circle one):

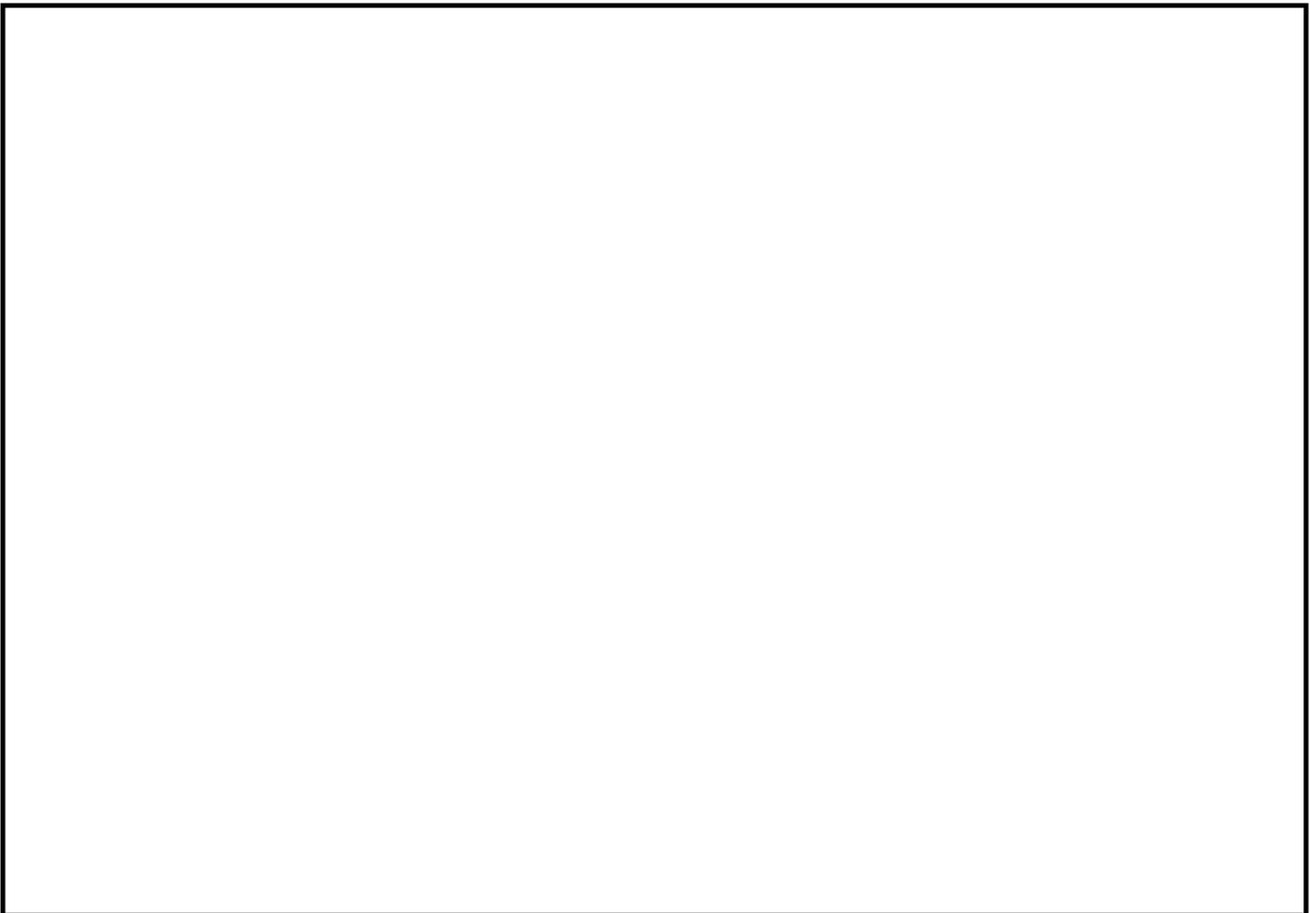
Easier

Safer

More fun

How?

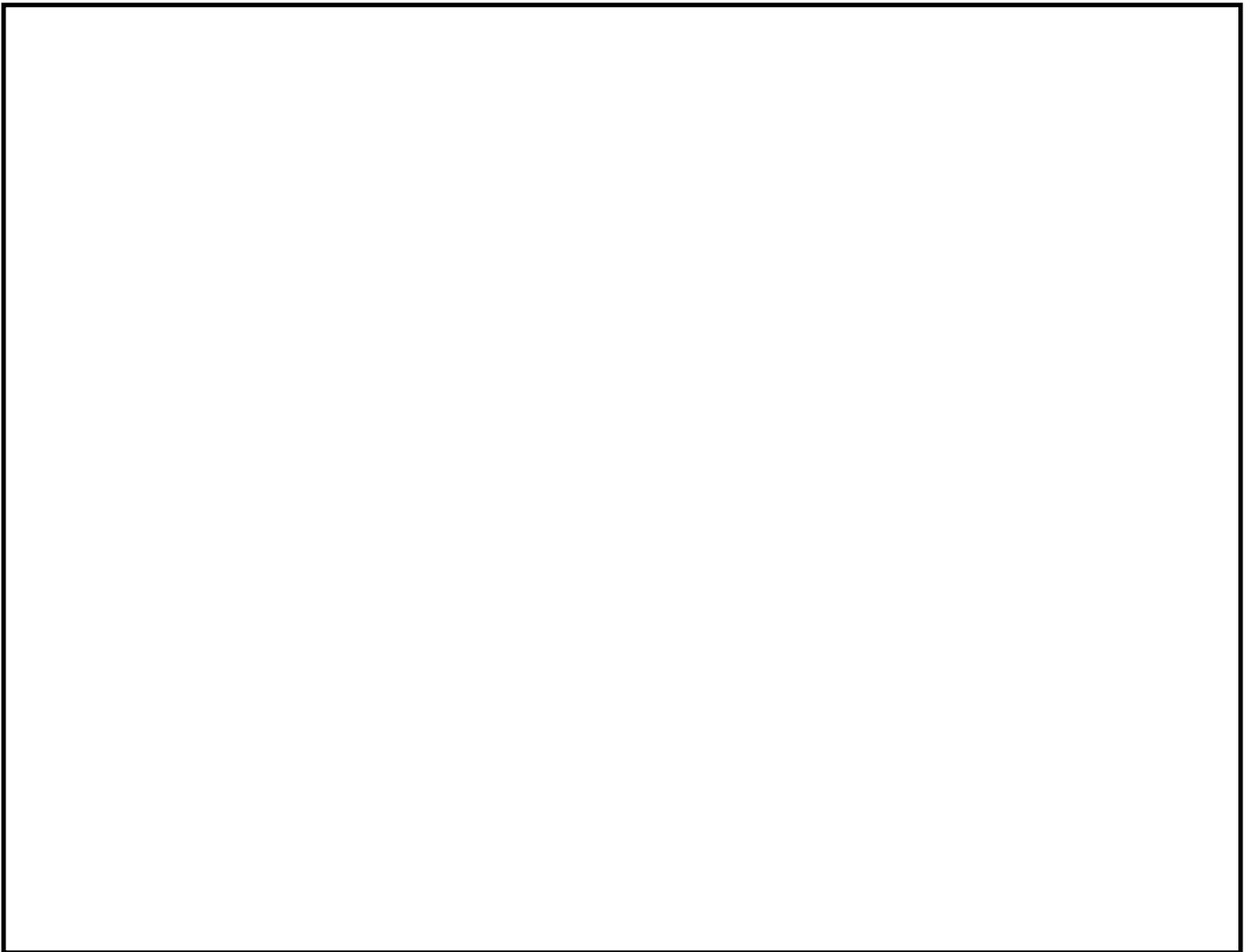
Draw a picture of your new technology.



My Technology Idea

Name: _____ Date: _____

My Technology Idea



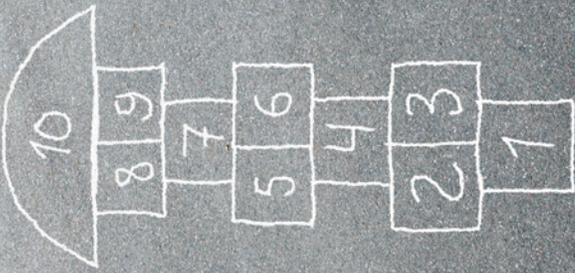
Name: Completed Example

How to: play hopscotch

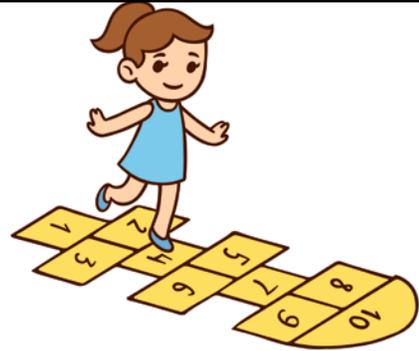
You will need...

- Flat concrete surface
- Chalk
- Rock

Follow these steps:

<p>1. Use the chalk to draw the hopscotch board on a flat concrete surface. Draw the board with 10 numbers and 10 boxes, like the picture.</p>	
<p>2. Pick up the rock. Throw it inside square 1.</p>	
<p>3. If the rock does not land inside square 1, your turn is over. Give the rock to the next player.</p>	

4. If the rock lands inside square 1, jump in every square from 2 to 10. Jump on one foot. Jump on two feet on squares 2-3, 5-6, and 8-9.



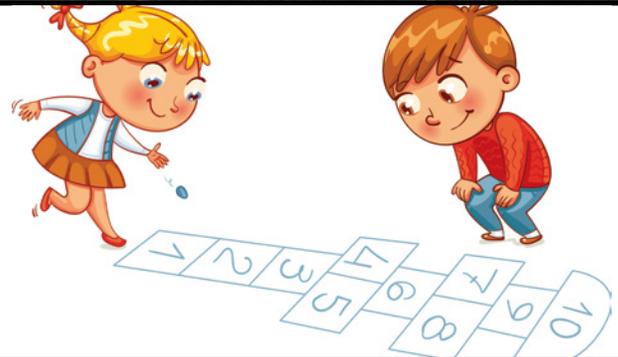
5. When you reach square 10, turn around. Jump back in the same way. Stop on square 2. Balance on one foot.



6. Balancing on one foot, bend down and pick up the rock. If you put your foot down, your turn is over.



7. Jump back to square 1. Your turn is over! For your next turn, throw the rock to square 2, jump, and pick it up. Repeat for every number.



8. When you have thrown the rock, jumped, and picked it up in all 10 squares, you have finished the game!



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Sorting Robots Worksheet

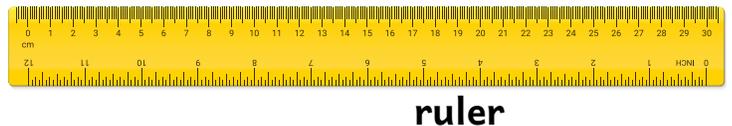
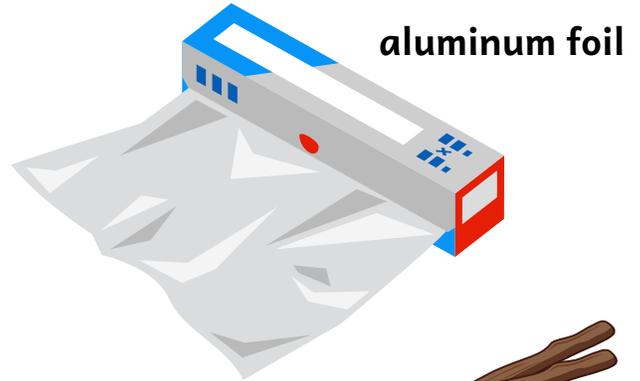
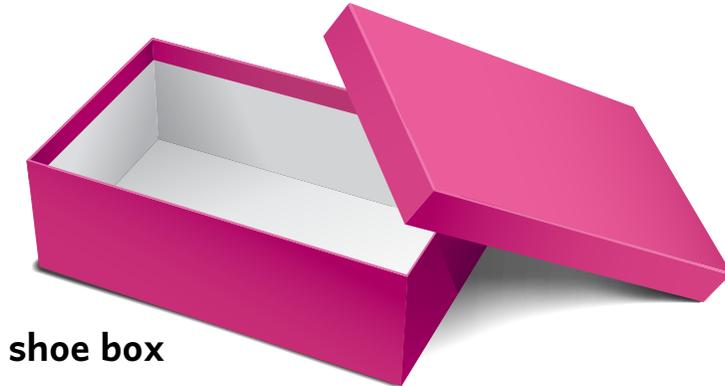
Write the name of the robot where it fits in the chart below.

Makes life easier	Makes life safer	Makes life more fun

Building a Solar Oven Direction Sheet

Follow these steps to build your own solar oven!

What You'll Need:



What You'll Do:

Step 1: Take the lid off the shoe box. Line the inside of the box with foil and glue it in place. Keep the foil as smooth as you can.

Step 2: Cut a piece of black paper the size of the bottom of the box. Tape or glue it in place, on top of the foil.

Step 3: Use a ruler to draw a rectangle on the top of the lid, about one inch from the sides.

Ask an adult to help you cut along three sides of the rectangle to make a flap. One of the long sides will not be cut.

Step 4: Line the inside of the flap with foil. Tape it in place.

Step 5: Stretch plastic wrap across the inside and outside of the opening in the lid. Tape it in place.

Your oven is ready to go! Take it outside to a sunny spot. Put your food on a small plate on the bottom of the box. Put the lid on, and prop the flap open with sticks. Make sure the Sun is shining on the open flap and into the box. Check on your food every 15 minutes until it is ready to eat.

Name: _____ Date: _____

Screen-Free Fun Poster

In each box, write the name of a screen-free activity. Draw a picture of each one.

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

Name: _____ Date: _____

Screen-Time Challenge Worksheet

In each box, circle the screen-time activity you replaced. Then write what you did instead.

Instead of **watching TV / playing a video game / going on the computer**, I...

Instead of **watching TV / playing a video game / going on the computer**, I...

Instead of **watching TV / playing a video game / going on the computer**, I...

Circle the word **easy** or **hard** in the sentence starter below. Then finish the sentence.
I thought the Screen-Time Challenge was **easy / hard** because...
