

USING TOOLS

1. What Is Inside My Home?



What room are you in the most?



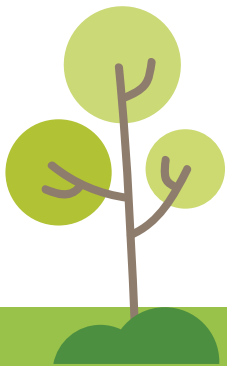
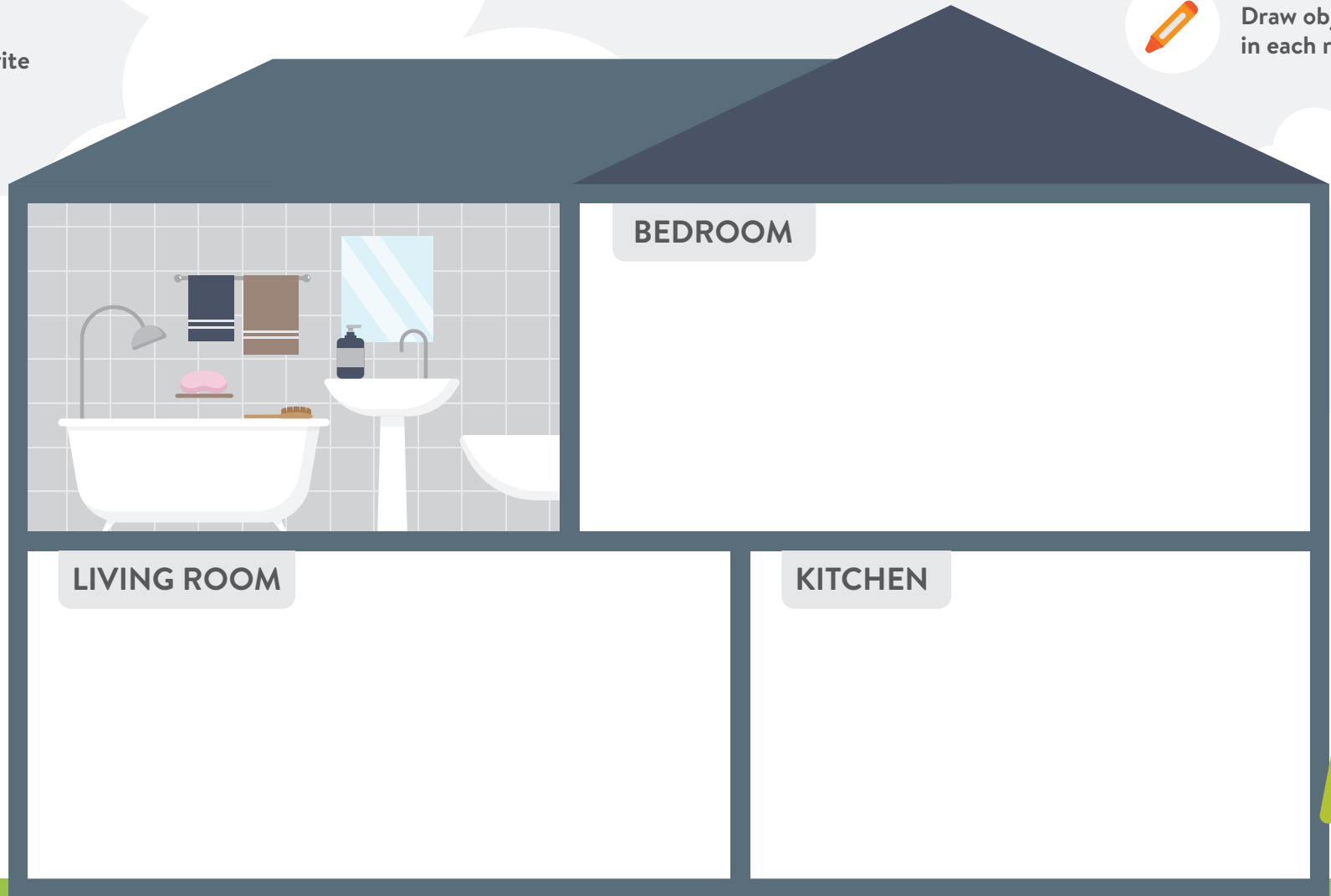
What type of rooms do you have in your home?



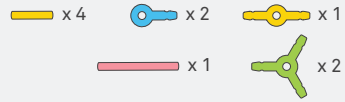
Draw your favorite personal item



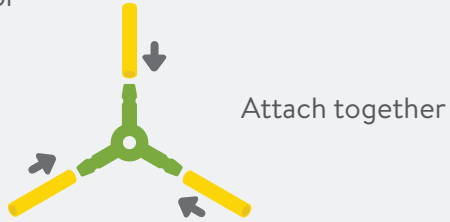
Draw objects found in each room



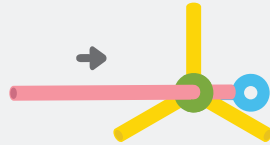
MAKE A LAMP



- 1** Count 1 green connector and 3 yellow straws

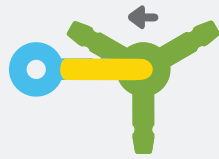


- 2** Count 1 pink straw and 1 blue connector



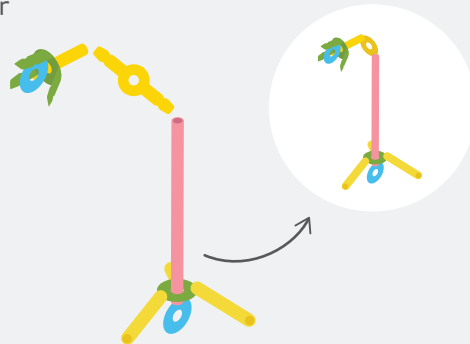
Slide the green connector until it pops

- 3** Count 1 green connector, 1 blue connector and 1 yellow straw



Slide the green connector until it pops

- 4** Count 1 yellow connector and connect the pieces

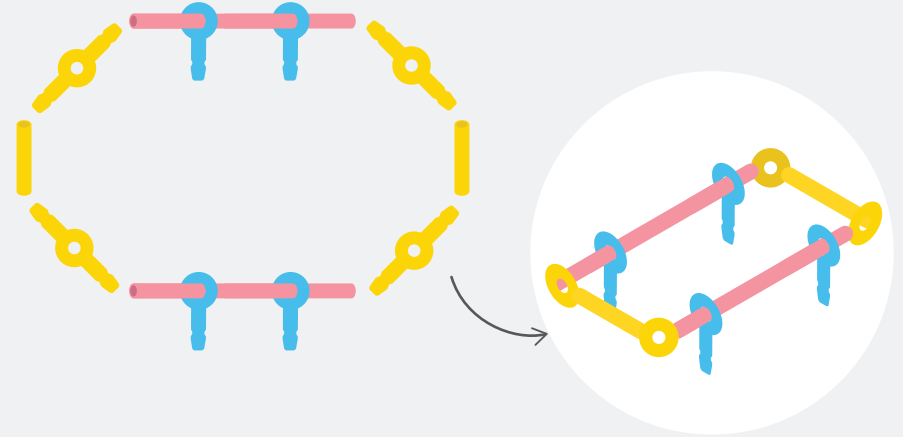


Bend the green legs to make lamp stand!

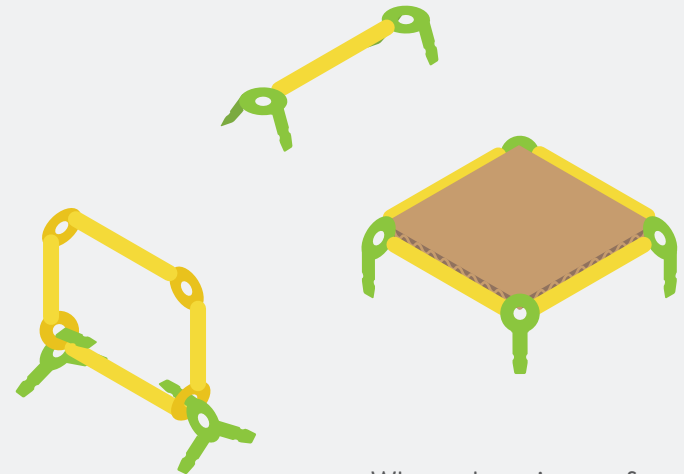
MAKE A TABLE / A BED



- 1** Count 4 blue connectors, 4 yellow connectors, 2 pink straws and 2 yellow straws




CREATE MORE FURNITURE!





What other pieces of furniture can you create?


2. Building Tools

? Why do we use tools instead of just hands?

 Draw a way to drill the building

 Write what you have built with tools

 Draw the tool for hitting nails

 Draw a tool for cutting wood



MAKE A HAMMER

— x10 ● x3 ● x3
— x3 ● x4

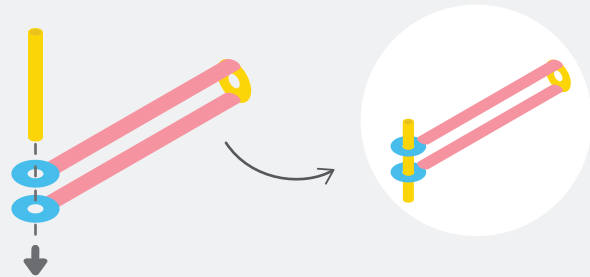
1 Count 2 green connectors and 2 yellow straws



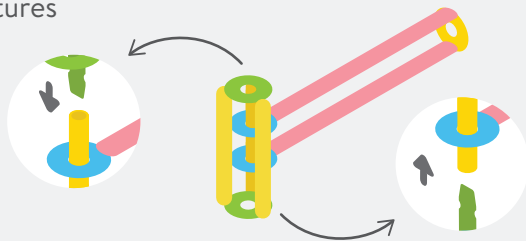
2 Count 1 yellow connector, 2 blue connectors and 2 pink straws



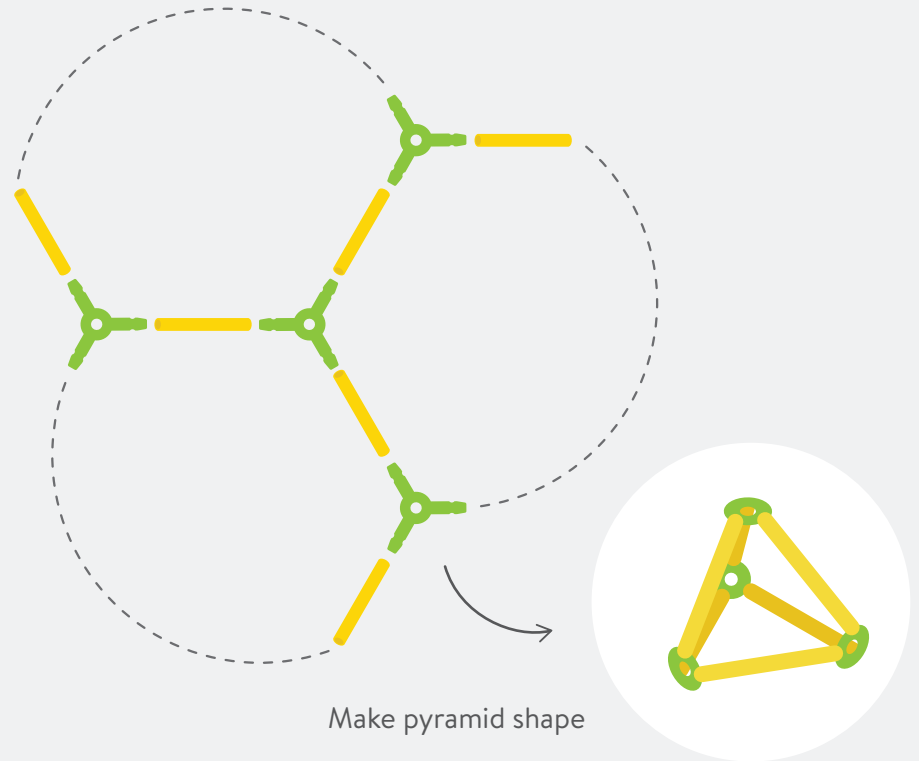
3 Count 1 yellow straw



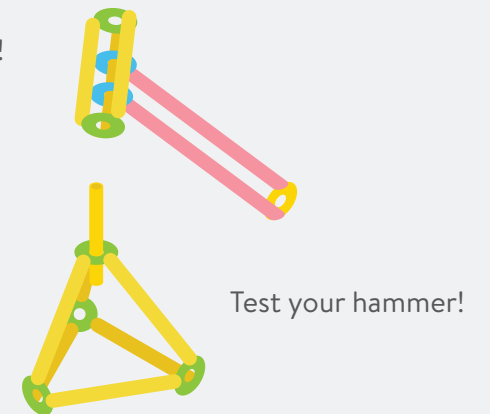
4 Connect the structures



5 Count 4 green connectors and 6 yellow straws



6 Use 1 yellow straw as nails!



3. Farming Tools



What is farming for?



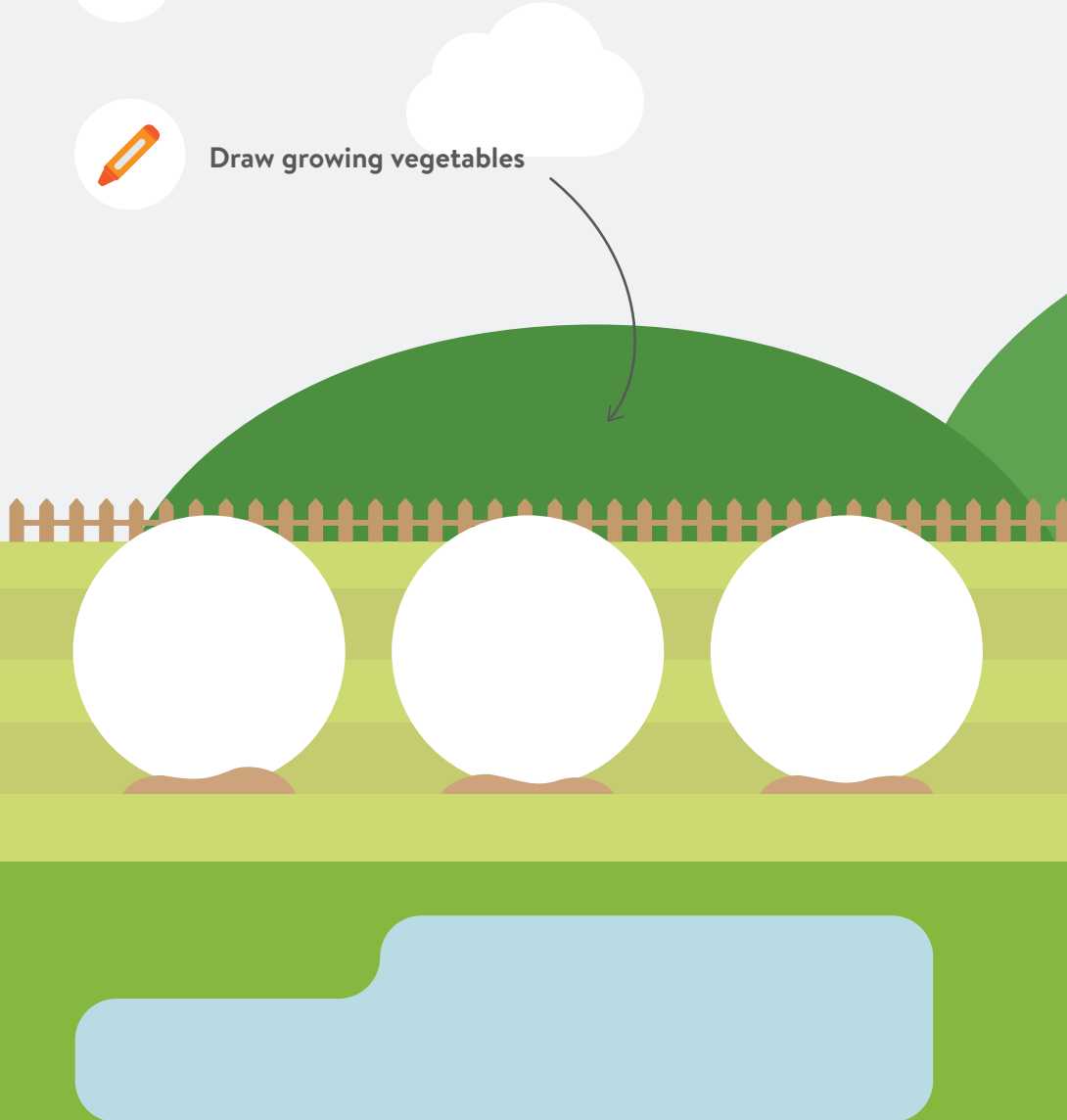
Draw growing vegetables



Draw light for your plants



Name tools for moving soil

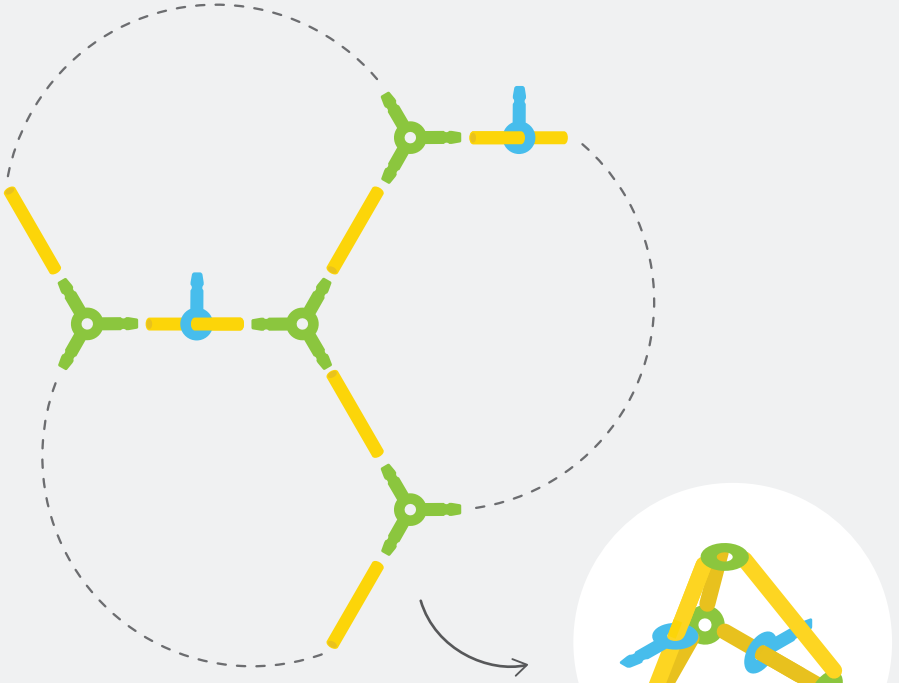


Draw a way to water plants

BUILD A WATERING CAN

-  x 6
-  x 3
-  x 4
-  x 9
-  x 1

1 Count 4 green connectors, 2 blue connectors and 6 yellow straws



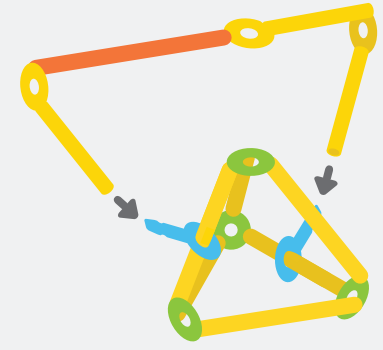
Make pyramid shape with blue connectors

2 Count 3 yellow connectors, 3 yellow straws and 1 orange straw

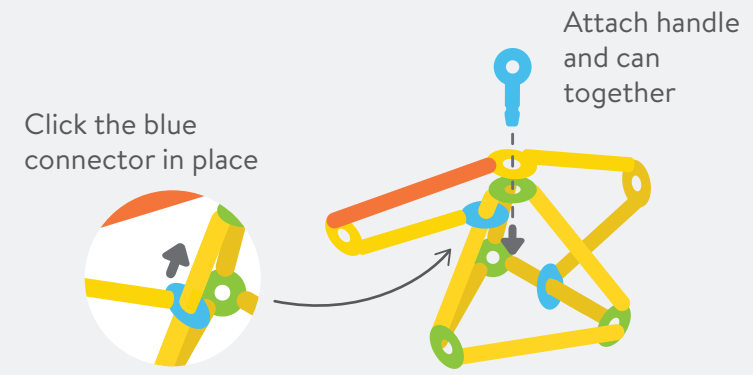


Make for handle

3 Attach handle to blue connectors from pyramid shape



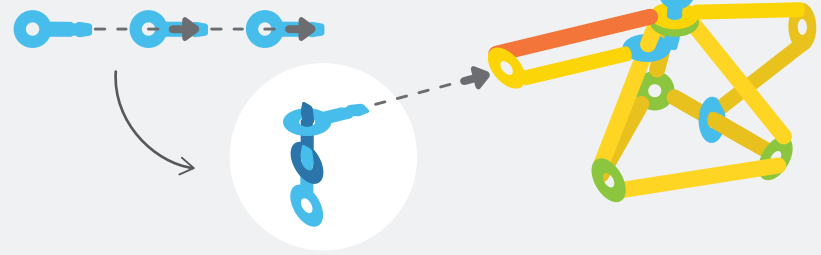
4 Count 1 blue connector



Click the blue connector in place

Attach handle and can together

5 Count 3 blue connectors



Connect for water

Sprinkle water in your own farm in back of book.

4. Water Wheel



Can you crush grain with your hands?



What is a water wheel for?



Where do you see water wheels?



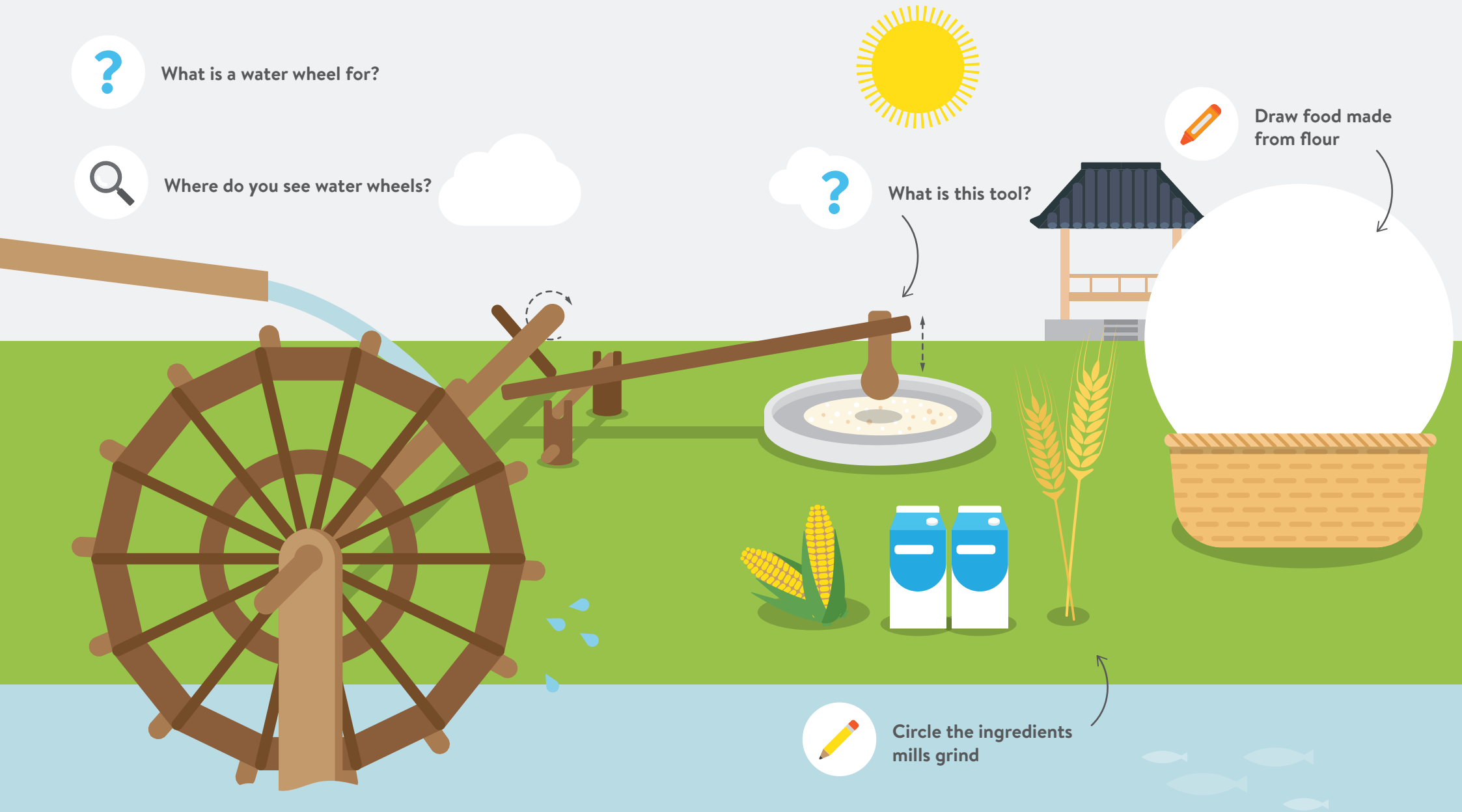
What is this tool?



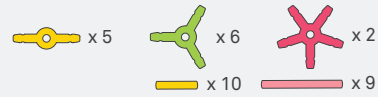
Draw food made from flour



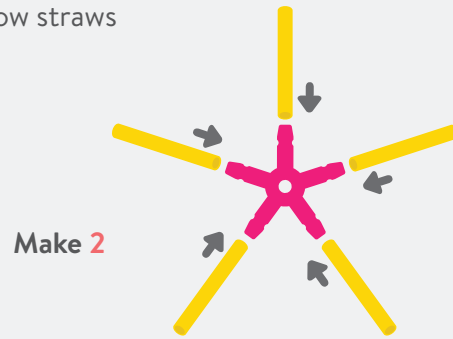
Circle the ingredients
mills grind



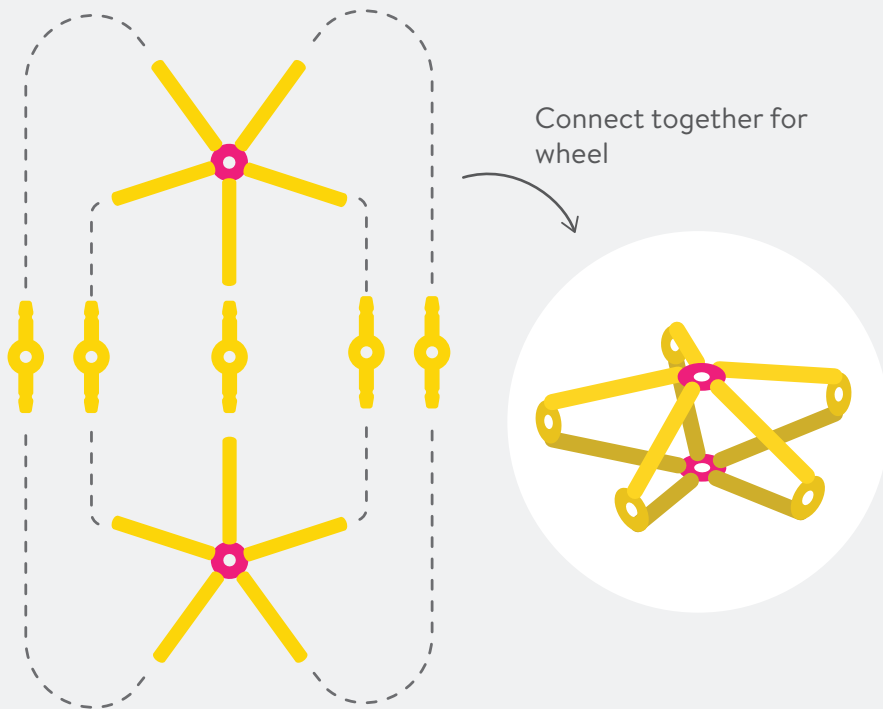
MAKE A WATER WHEEL



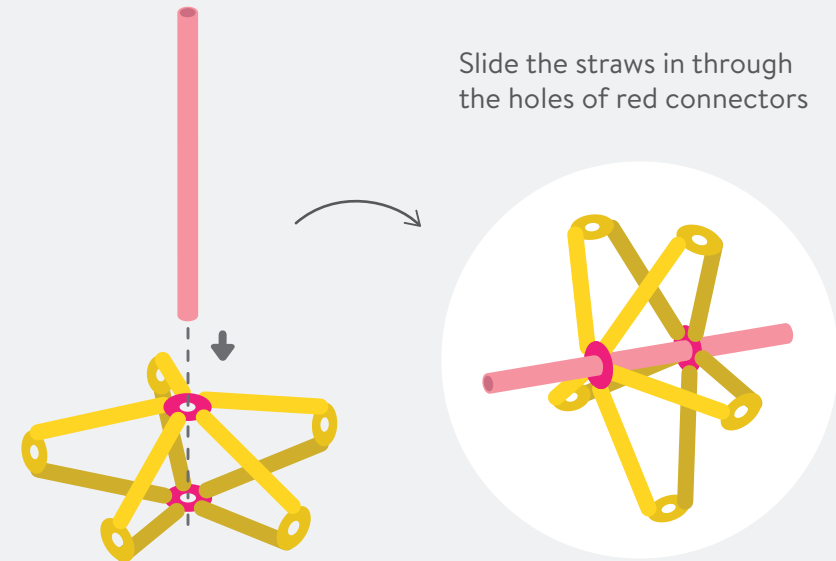
1 Count 2 red connectors and 10 yellow straws



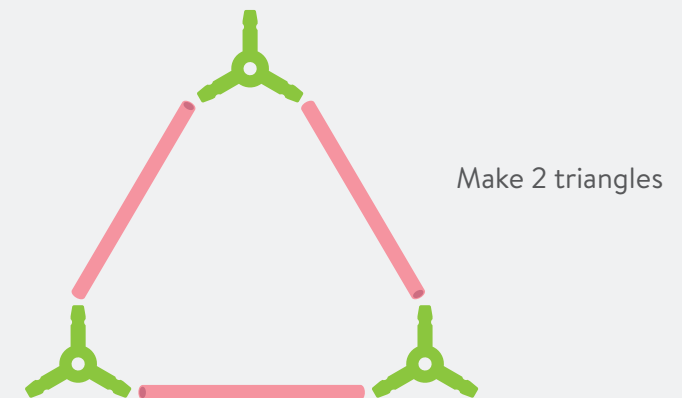
2 Count 2 yellow connectors



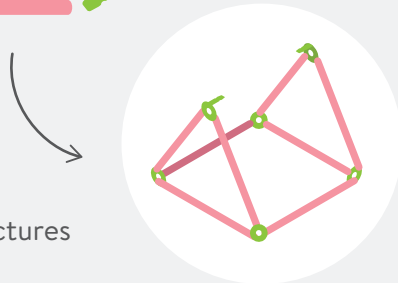
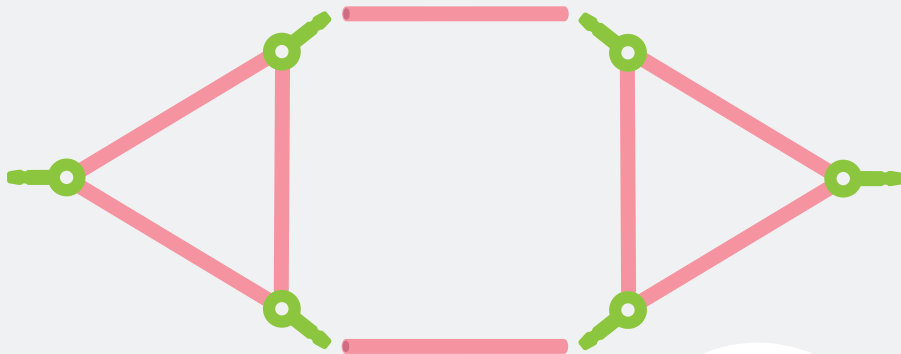
3 Count 1 pink straw



4 Count 6 green connectors and 6 pink straws

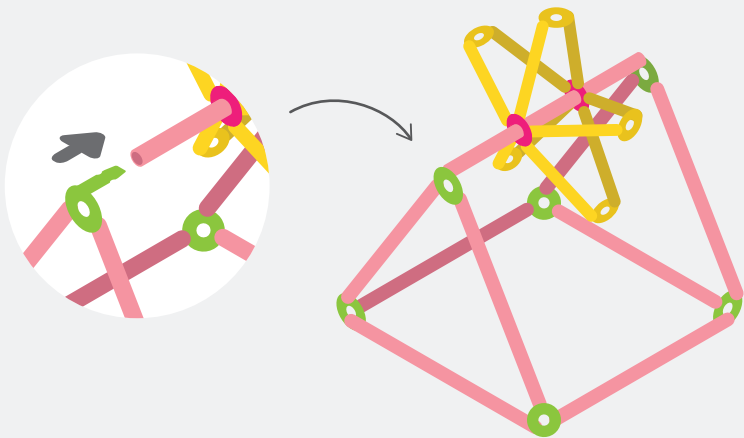


4 Count 2 pink straws



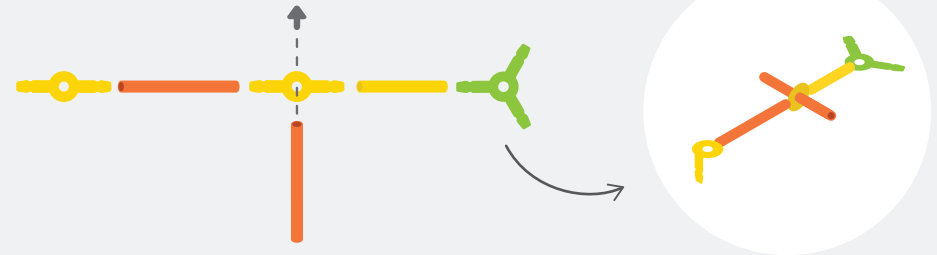
Connect the structures

6 Combine with structure with water wheel



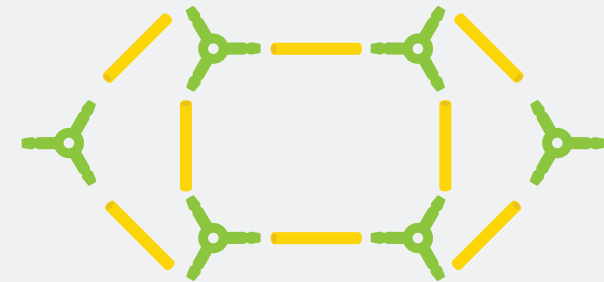
MAKE A MILL

1 Count 2 yellow connectors, 1 green connector, 1 yellow straw and 2 orange straws

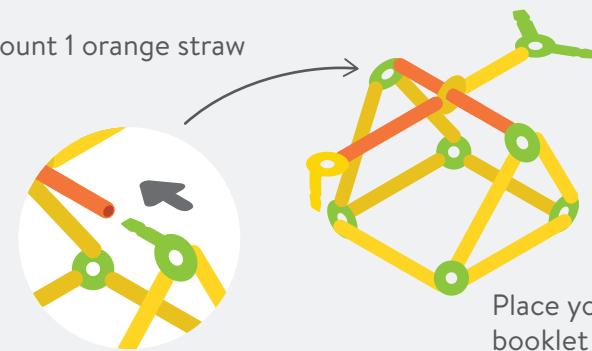


Slide an orange straw through yellow connector

2 Count 6 green connectors and 8 yellow straws



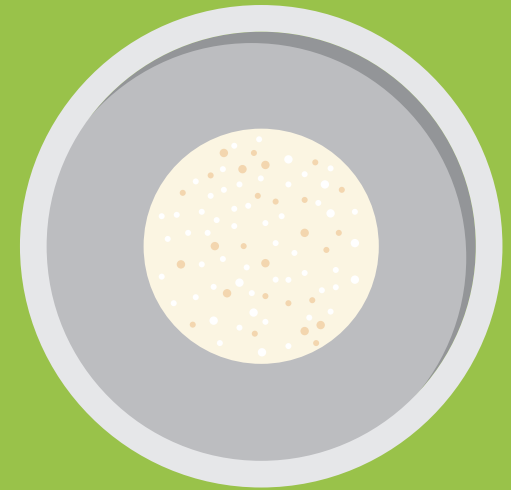
3 Count 1 orange straw



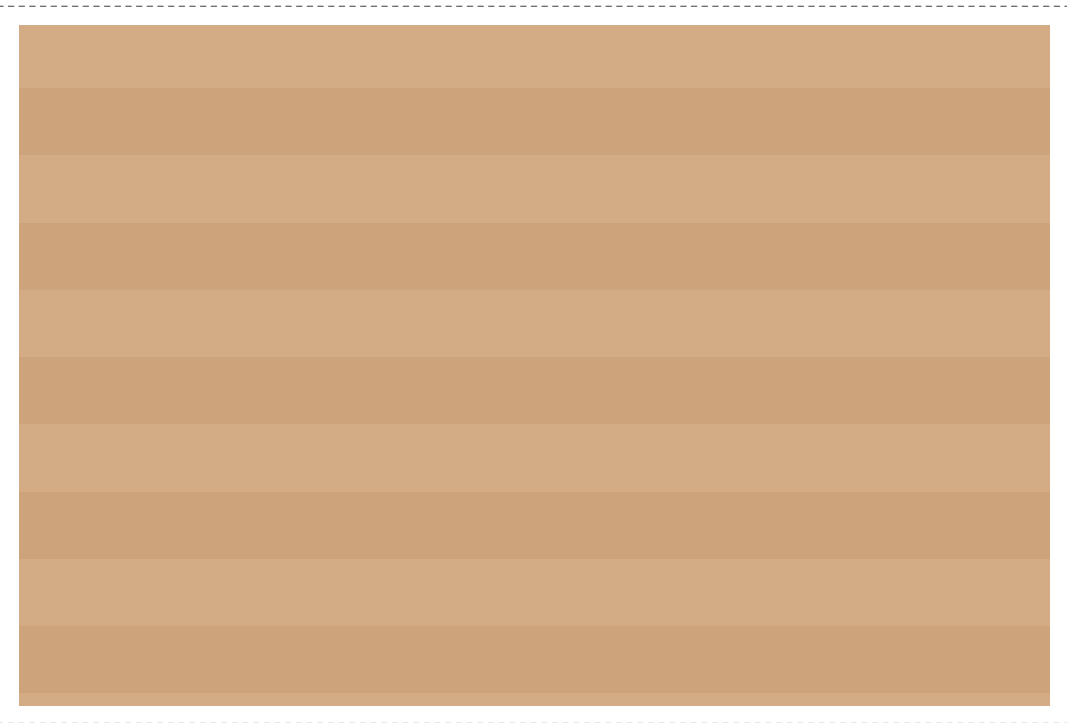
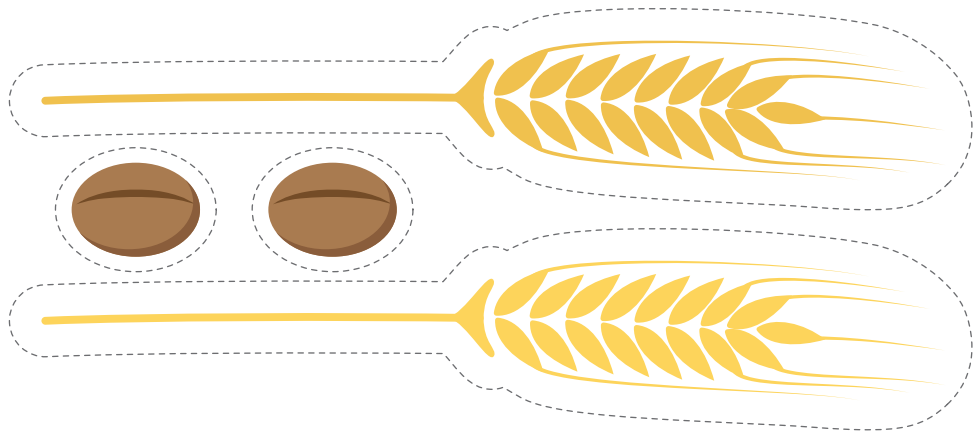
Place your mill in back of booklet to see it work!

4. Water Wheel

Take your grown plants from the last page, and grind in the mill!
How does it work?



Cut out seeds and plant in the farm.
Water your plants, what grows?





Let's look at home for the tools we use in our everyday lives. Then look at tools useful for an engineer and farmer where many we already use!