



01.TECHNOLOGY AROUND US

M1U1P1

WHAT CAN YOU SEE ON THIS PHOTO? WHAT PROBLEM/NEED DOES IT SOLVE?



EXAMPLE: THIS PEN HELPS ME TAKE NOTES



WHAT CAN YOU SEE ON THIS PHOTO? WHAT PROBLEM/NEED DOES IT SOLVE?





WHAT OTHER THINGS DO WE USE IN OUR DAILY LIFE?

TOOLS

- A **tool** is an object used to extend the ability of an individual to modify features of the surrounding environment
- Many animals use simple tools, but only humans use tools to make other tools
- The set of tools required to perform different tasks that are part of the same activity is called **gear** or **equipment**





WHAT IS A PRODUCT?

WHAT IS A PRODUCT?

- A **product** is a result that we get from using a tool
- Example: juice, food, pencil, glass, book, phone...
- The same product can also be a tool
- Which means we can use tools to make other tools

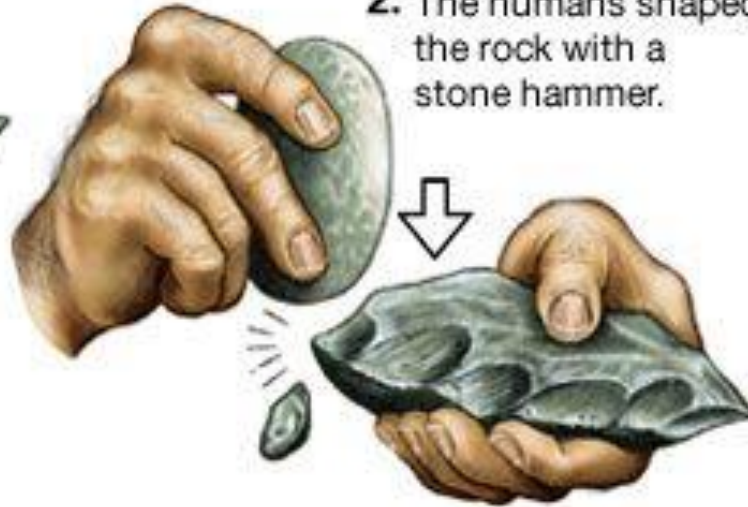


How Stone Age Humans Made Hand Axes

1. The process started with a large piece of rock.



2. The humans shaped the rock with a stone hammer.



3. Using a hammer made of wood, stone, or antler they sharpened the edge.



4. They trimmed the edge by prying off tiny flakes with a pointed stick.



Finished hand ax



front view



side view



↑ รูป 1.1 สิ่งของเครื่องใช้ที่เกี่ยวข้องในกิจวัตรประจำวัน

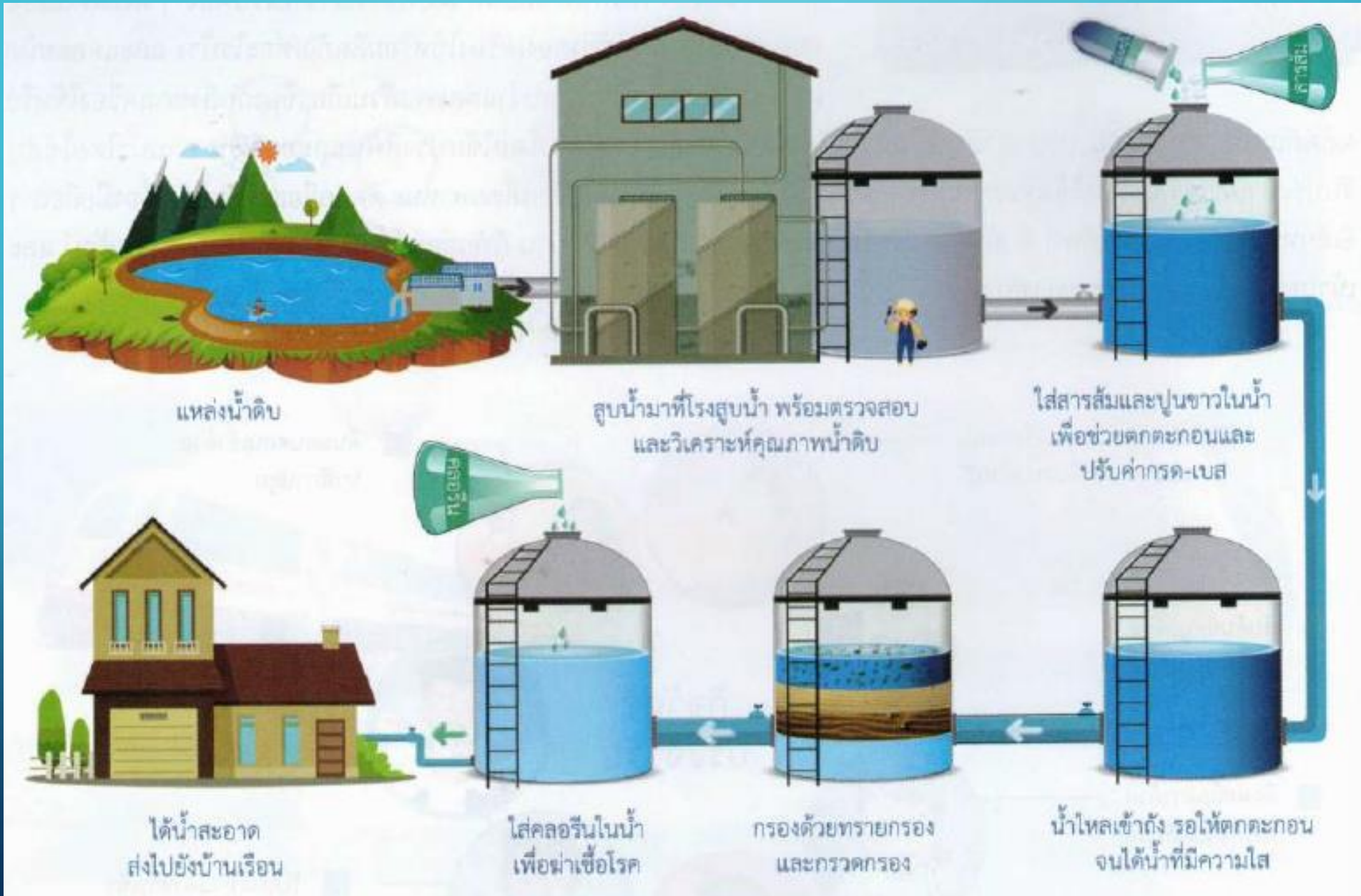
TECHNOLOGY

- In our everyday life we use many products and tools that help us solve a problem or our need
- Everything that solves our problems or our needs from the early ages until now, and in the future, we will call **technology**

PROCESS

- As we said, technology made by humans can be a product or a tool that is used to fix a problem or need
- But a process or a system can also be considered as technology
- A process is using many tools in an order to create a product

EXAMPLE 1: WATER PURIFICATION SYSTEM



EXAMPLE 2: FILTERING FACTORY WATER



DIFFERENT TOOL, SAME JOB

- Sometimes we need to use different tools to solve a same problem, do the same job
- For example if we want to cut a paper we can do it with scissors, but if the paper is too thick we need another tool, for example a laser cutter or water jet cutting machine



WHAT PROBLEMS DO THESE TOOLS SOLVE?





ANY QUESTIONS?



THE END