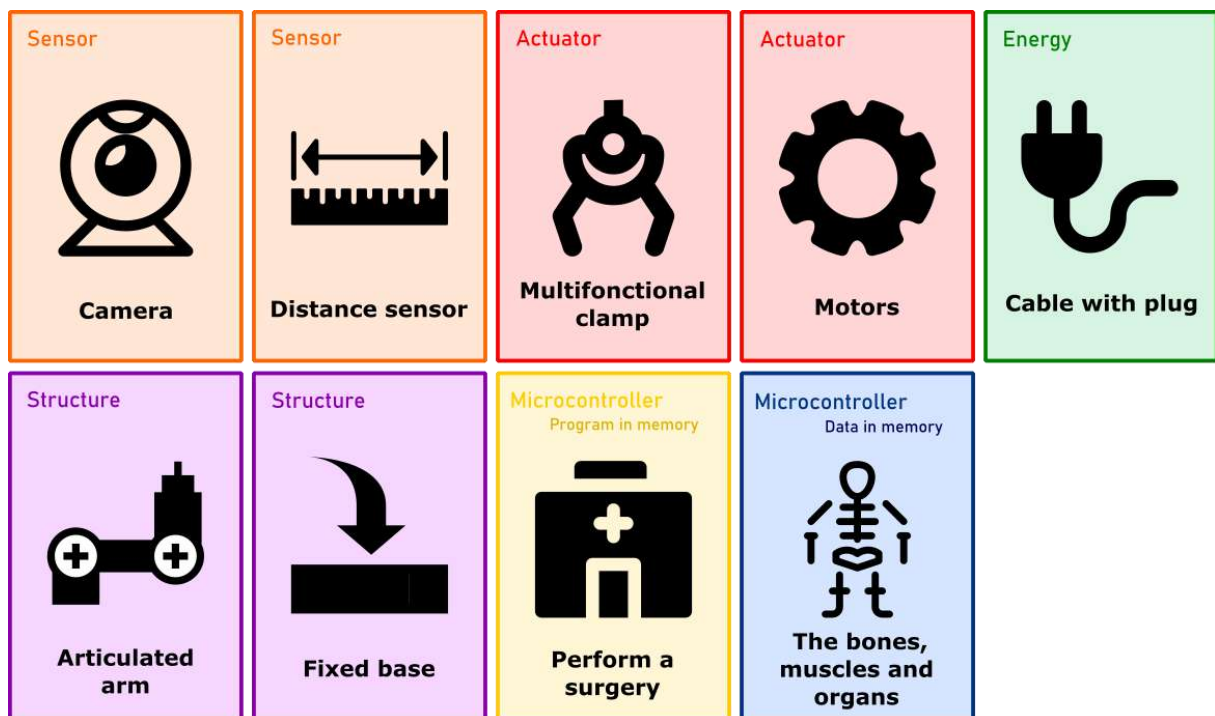


Eddy's Secret : Invent your robot

Now it is your turn to invent a robot that can do something specific. Helping humans, exploring an unknown area, imitating animals or humans indeed the choices are endless! However each robot will need specific elements to work properly.

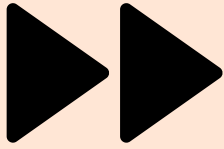
Once you have chosen what your robot will do, choose the elements it will need from the cards: sensors, actuators, energy source, basic structure, microcontroller (program and data in memory). Be careful as resources are limited. You can only use a maximum of 10 cards!

When you have found the right cards, try to make your classmates guess what your robot can do, just by showing them the cards you have chosen. You can also draw the resulting robot, or build it with recycled materials.



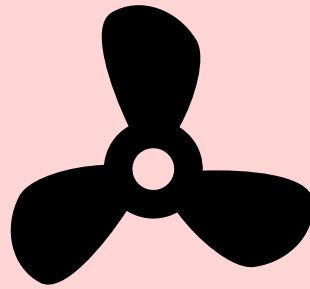
Example: Selection of cards that could be chosen to invent a surgical robot

Sensor



Accelerometer

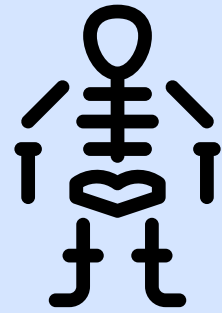
Actuator



Propeller

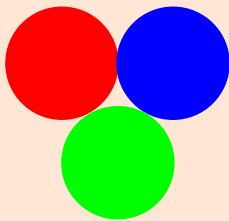
Microcontroller

Data in memory



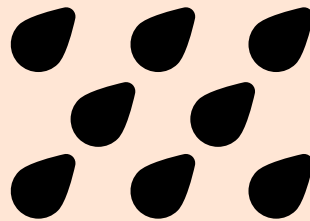
**The bones,
muscles and
organs**

Sensor



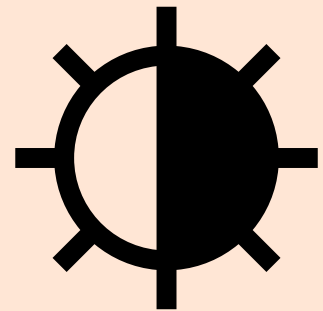
Color sensor

Sensor



**Humidity sensor
(hygrometer)**

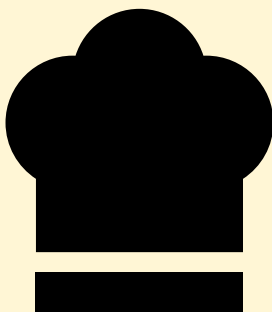
Sensor



Light sensor

Microcontroller

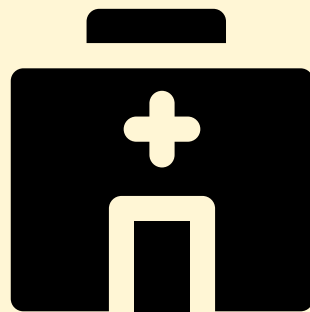
Program in memory



**Follow a
recipe**

Microcontroller

Program in memory



**Perform a
surgery**

Microcontroller

Program in memory



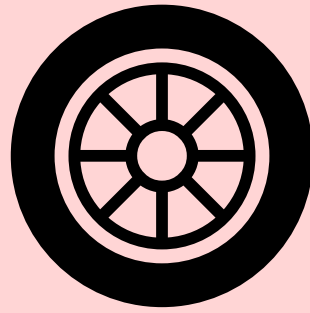
**Search for
information on
the internet**

Sensor



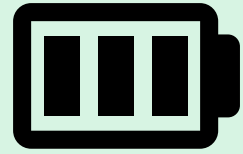
**Stopwatch or
clock**

Actuator



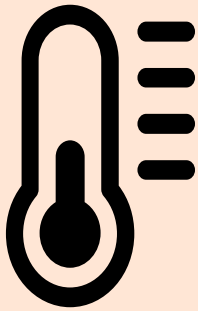
Wheels

Energy



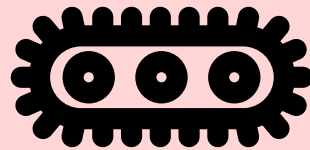
**Ultra-light
battery**

Sensor



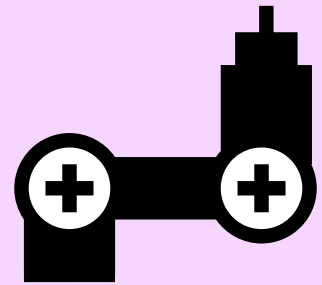
Thermometer

Actuator



Tracks

Structure



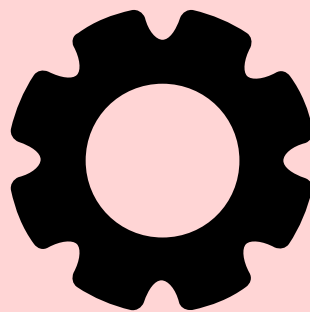
**Articulated
arm**

Sensor



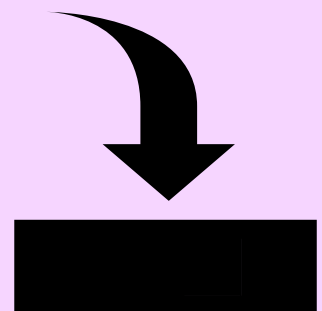
**Radio or wifi
antenna**

Actuator



Motors

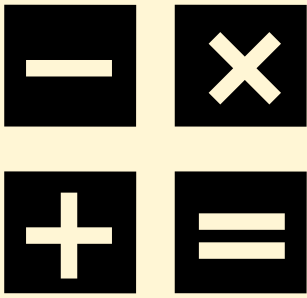
Structure



Fixed base

Microcontroller

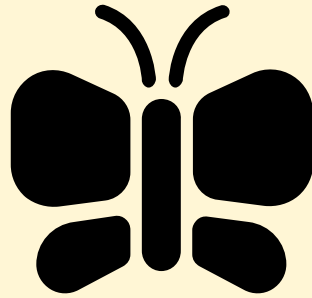
Program in memory



Calculate

Microcontroller

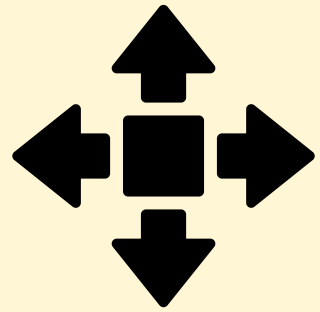
Program in memory



Fly

Microcontroller

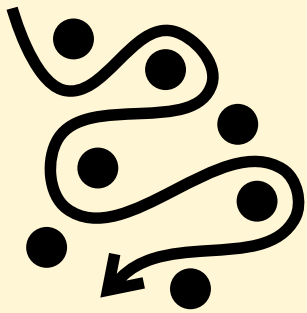
Program in memory



Move

Microcontroller

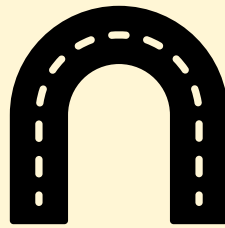
Program in memory



Avoid obstacles

Microcontroller

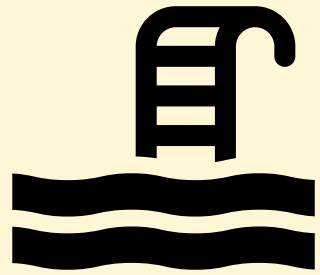
Program in memory



Follow a path

Microcontroller

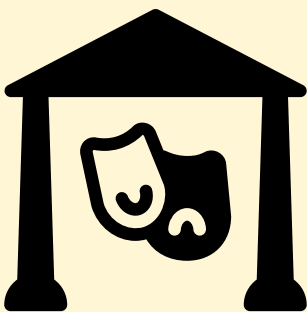
Program in memory



Swim

Microcontroller

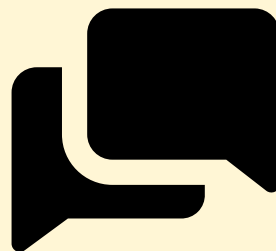
Program in memory



Imitate emotions

Microcontroller

Program in memory



Talk to a human

Microcontroller

Program in memory



Keep its balance

Microcontroller

Data in memory



The detailed world map

Microcontroller

Data in memory



The answer to all your homework

Microcontroller

Data in memory



The English vocabulary and grammar

Microcontroller

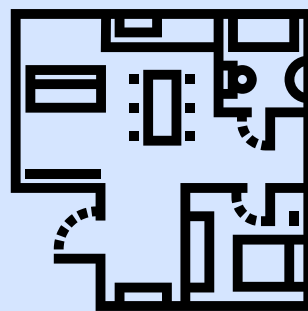
Data in memory



The weather forecasts all around the world

Microcontroller

Data in memory



The location of the furniture in your house

Microcontroller

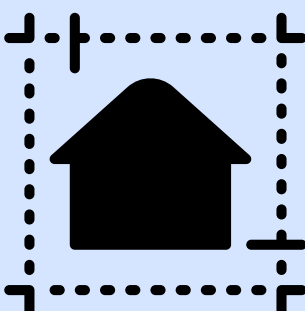
Data in memory



Your personal information

Microcontroller

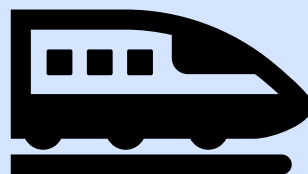
Data in memory



The exact shape of your lawn

Microcontroller

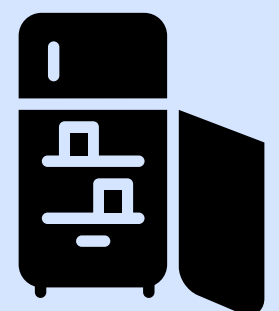
Data in memory



The train timetables all around the world

Microcontroller

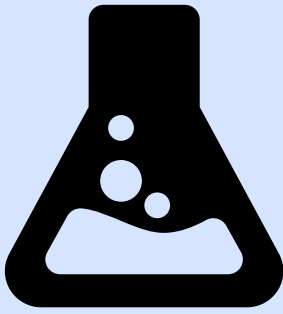
Data in memory



Everything in your fridge

Microcontroller

Data in memory



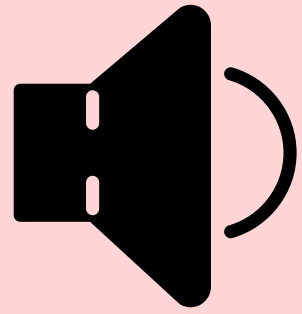
All the chemical elements

Sensor



Microphone

Actuator



Loudspeaker

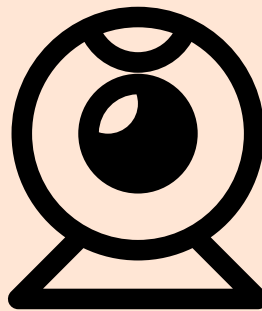
Microcontroller

Data in memory



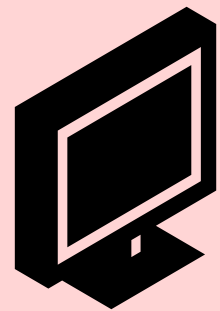
Everything in your bedroom

Sensor



Camera

Actuator



LED screen

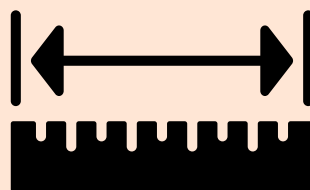
Microcontroller

Data in memory



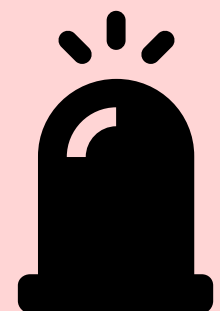
Your favorite videos, music and books

Sensor



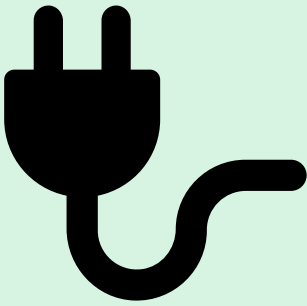
Distance sensor

Actuator



Flashing light

Energy



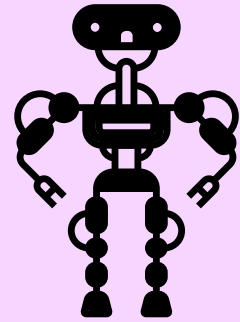
Cable with plug

Structure



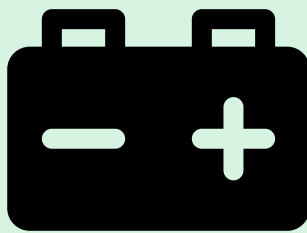
Pencil holder

Structure



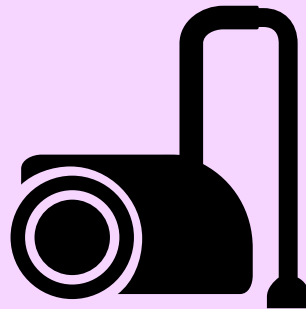
Human-like skeleton

Energy



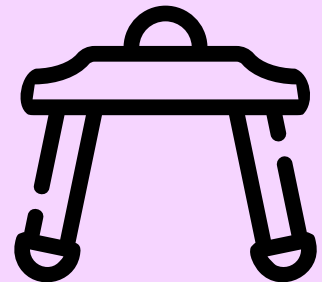
Long-life battery

Structure



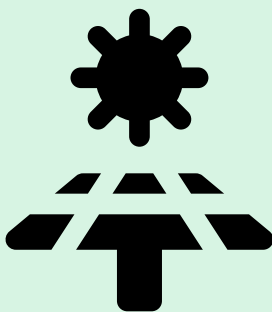
Hose

Structure



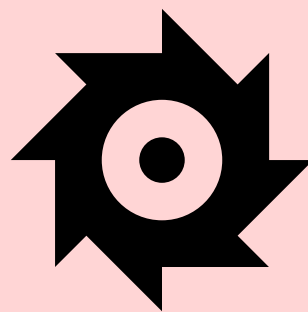
Drone structure

Energy



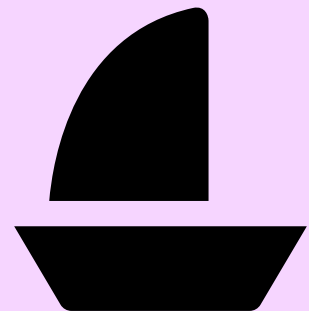
Battery connected to a solar panel

Actuator



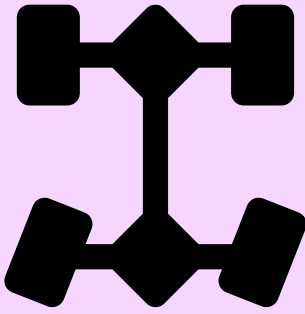
Sharp blade

Structure



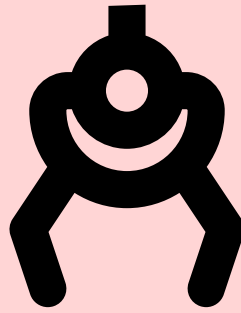
Boat hull

Structure



**Wheeled
vehicle
chassis**

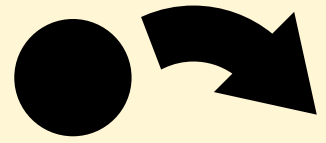
Actuator



**Multifunctional
clamp**

Microcontroller

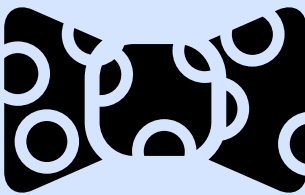
Program in memory



Move objects

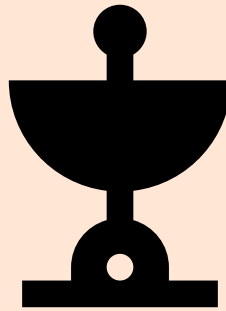
Microcontroller

Data in memory



100 funny jokes

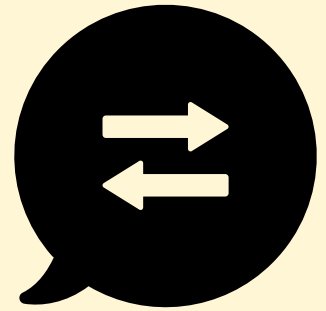
Sensor



**Speed sensor
(radar)**

Microcontroller

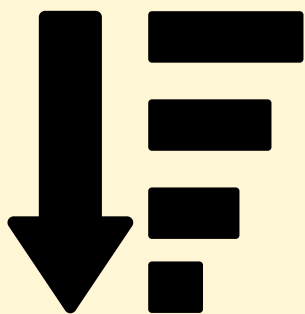
Program in memory



Translate a text

Microcontroller

Program in memory



Sort

Microcontroller

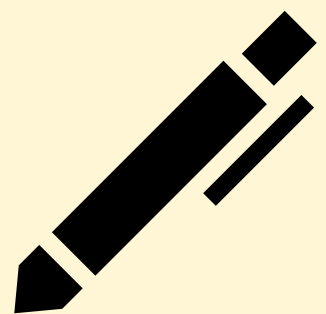
Program in memory



Clean

Microcontroller

Program in memory



Write