

# Identify Machines That Can Think and Learn

**How to use:** Print first for the main practice. Then use the device to repeat activities and save progress.

## LEARNING OBJECTIVES

- 1 Tell the difference between a smart machine and a regular machine
- 2 Sort each one into the correct group

## MINI LESSON

Some machines can think and make decisions — we call them smart machines. Other machines just do the same job every single time. Can you spot the difference?

### What is a smart machine?

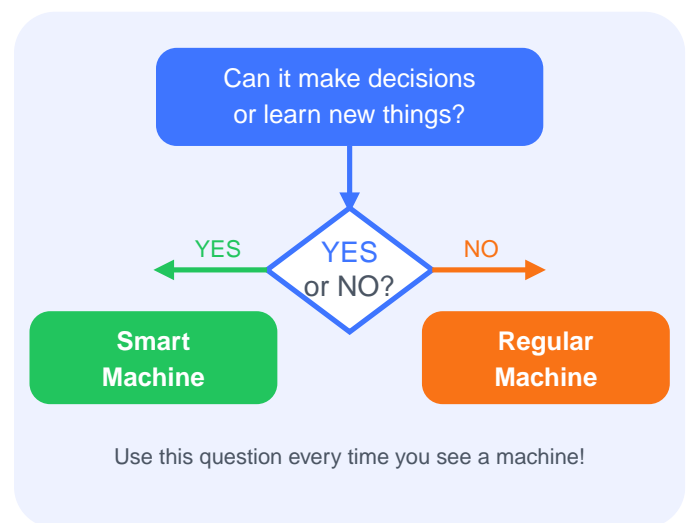
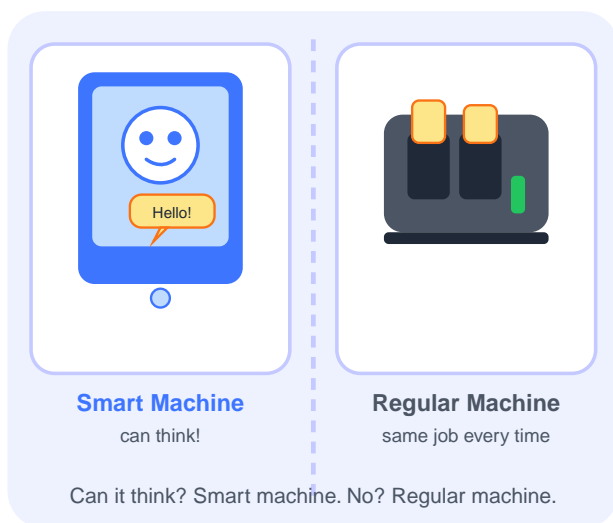
- A smart machine can take in information and make decisions.
- Example: a voice assistant listens to your question and chooses the right answer.
- Smart machines follow programs — sets of instructions that help them think.

### What is a regular machine?

- A regular machine always does the same job the same way every time.
- Example: a toaster just heats bread — it cannot learn or change what it does.

### How to tell them apart

- Ask: "Can this machine learn, answer questions, or make decisions?"
- Yes ' smart machine (robot vacuum, spell-checker, chess computer).
- No ' regular machine (lamp, ceiling fan, hand mixer).



! Ask yourself: "Is this machine doing the same thing every time, or is it thinking and making choices?"

TRACING PRACTICE

Trace each word, then copy it twice on the lines below.

TRACE

smart machine

COPY 1

COPY 2

TRACE

regular machine

COPY 1

COPY 2

TRACE

robot

COPY 1

COPY 2

TRACE

voice assistant

COPY 1

COPY 2

TRACE

program

COPY 1

COPY 2

TRACE

decision

COPY 1

COPY 2

TRACE

technology

COPY 1

COPY 2

TRACE

computer

COPY 1

COPY 2

## EXERCISES — SORT & MATCH

Write each word in the correct column.

WORDS TO SORT

Voice assistant

Toaster

Robot vacuum

Lamp

Chess computer

Ceiling fan

Smart TV

Hand mixer

Spell-checker

Alarm clock

Smart Machine

Regular Machine

## EXERCISES — MULTIPLE CHOICE

1. What do we call a machine that can think and make decisions?

- A regular machine
- A smart machine
- A broken machine

2. Which of these is a smart machine?

- A toaster
- A lamp
- A voice assistant

3. What does a regular machine do?

- It learns new things every day
- It makes decisions on its own
- It does the same job the same way every time

4. Which one is a regular machine?

- A robot vacuum
- A ceiling fan
- A chess computer

**5. How does a smart machine "think"?**

- It copies exactly what a human does
- It follows a program that helps it make decisions
- It uses magic to find answers

**6. Which machine can learn new things?**

- A lamp
- A toaster
- A robot vacuum

**7. A toaster pops up bread when it gets hot. Is a toaster a smart machine?**

- Yes, because it knows when bread is hot
- No, because it just does the same job every time
- Yes, because it uses electricity

**8. What is the best question to ask when deciding if a machine is smart?**

- Can this machine be turned on?
- Can this machine make decisions or learn?
- Can this machine be plugged in?

**9. Which of these is a smart machine?**

- A hand mixer
- A bicycle
- A spell-checker on a computer

**10. Smart machines are different from regular machines because smart machines can:**

- Use electricity
- Break down
- Think and make decisions

**ASSESSMENT**

**PARENT / TEACHER CHECKLIST**

- Points to a picture of a machine and correctly names it as a smart machine or a regular machine.
- Gives a reason for their answer (e.g., "It can answer questions, so it's a smart machine.").
- Sorts at least 8 out of 10 machines correctly into the two buckets on screen.
- Scores 9 or 10 out of 10 on the MCQ Quick Check.