

UNIT 6. HELPING ME AND YOU

CAN YOU FIX A TAP?

Circle the tools you use at home.

Some **tools** are simple. They have only got one or two parts. They work using our **energy**. We can pull, turn, push or twist them. Tools help us every day.

Which tools do we need to be careful with?



Which tools can we use to fix the tap?

Find the hammer hidden in the unit!

FUN FACT

Hey! I am a tool, too!

Find out

Mini-project

Let's make a tool mini book.

- 1 Prepare your mini book. Think about the tools you want to include.



- 2 Draw a tool on each page. Write its name.



Try it out

MY DICTIONARY



hammer



saw



screwdriver



spanner

What have I learnt?

Tools are simple objects with one or two parts. We can fix things with a _____, _____, _____ or _____. They make our lives easier.

HOW ARE THEY DIFFERENT?

Listen and circle the complex machines.

Machines have got different parts. The different parts work together, like a team, to do a job.



There are **simple** and **complex** machines. Simple machines have got few or no moving parts. They work with human energy.



Complex machines have got lots of parts. They need **main** electricity or **batteries** to work. Machines make our lives easier.



Is an aeroplane a complex or a simple machine?



FUN FACT

Before toasters, people toasted bread over a fire.



Find out

Experiment

Try it out

Let's have a race!

1 Which inclined plane do you think is faster? Discuss with your partner.



2 Test the inclined planes with a toy car. Were you correct?



Which inclined plane do you think is easier to climb?



DO YOU HAVE THE ENERGY?

Circle the machines that use batteries.

We use machines every day. **Complex** machines use different types of energy.



Some machines use mains electricity.

What other machines do you use?

Some machines use batteries.

What types of energy do they use?

Some machines use human energy.

Game Zone

Let's play a matching game.

- 1 Make cards for machines and cards for the type of energy they use.



- 2 Colour the pictures and play the game with your partner.



What have I learnt?

Complex machines need _____ or _____ to work. Some complex machines have a cable and a _____. We plug them into a _____. Sometimes, we use a _____ to turn them on.

Try it out

MY DICTIONARY



batteries



mains electricity



plug



socket



switch

HOW DO THEY CHANGE OUR WORLD?

What does this invention look like now? Draw.

Inventions get better over time. They change our lives and the world!



Find out

FIRE



PAST

PRESENT

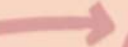
THE WHEEL



PAST

PRESENT

THE PLOUGH



Which is the best invention?

Do you use these inventions?

Mini-project

Let's invent!

- 1 Build a robot with recycled materials.
- 2 Compare your robot and the robot in the photo. Tick (✓).



	My robot	The other robot
has one or two parts		
has lots of parts		
uses a battery		
uses mains electricity		
uses human energy		

Is your robot a simple or a complex machine?

What have I learnt?

From _____, the _____ and the _____ are inventions from the _____, but they are different in the _____.



Try it out

MY DICTIONARY



fire



wheel



plough



past



present