

Unit 1

The Design Process



How do you solve problems?

1 What are the tools? Look and write.



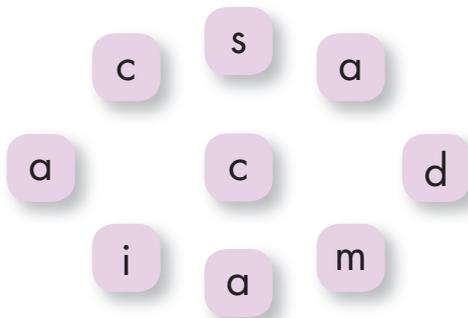
1 st a pler

2 h _ _ m _ _ er

3 s _ _ rew _ _ river

4 s _ _ is _ _ ors

5 n _ _ _ ls



2 Where do you use these tools? Read and circle.

1 hammer at home / at school

2 screwdriver at home / at school

3 stapler at home / at school

4 scissors at home / at school

5 nails at home / at school



Reading Tip

Look online for information. A website can tell you what tools you need.

3 Making a birdhouse. What tools do you need? Look at 1, think, and write.

4 Check your answer to 3. Read and mark (✓).

Dad: Do we have all the tools we need?

Tom: We have the hammer.

Dad: Where are the nails?

Tom: They're here.

Dad: Now, where is the screwdriver?

Tom: Here it is!



Make a Birdhouse

You need:			
a stapler	<input type="checkbox"/>		
a hammer	<input checked="" type="checkbox"/>	some scissors	<input type="checkbox"/>
some nails	<input type="checkbox"/>	a screwdriver	<input type="checkbox"/>
			

5 What tools do you have? Draw and complete for you.

At school, I have _____

At home, _____



Lesson 1 • What is technology?

1 Jack and technology. Read and write *yes* or *no*.

Jack likes science. He wants to be a scientist. Scientists use technology to make discoveries. Jack likes to use technology. His tablet is his favorite kind of technology. He wants to use technology to invent something or to make an important discovery.



1 Jack wants to be a scientist.

yes

2 Jack wants to be a teacher.

3 Scientists use technology.

4 Jack doesn't like technology.

5 He likes his tablet.

2 What goes together? Read and match the sentence halves.

1 He wants to be

a to make a discovery.

2 He wants to use technology

b kind of technology.

3 He likes to

c a scientist.

4 A tablet is a

d use technology.

Grammar Tip

This **is** a scientist. They **are** scientists.

3 Scientists. Look and write *is* or *are*.



1 He is a scientist _____.

2 She _____.

3 They _____.

4 What is your favorite kind of technology? Draw and complete for you. Choose from the words in the box.

computer tablet cell phone car bicycle



This is a _____.

This is a _____.

Lesson 2 • What are objects made of?

1 What materials are the objects made of? Read and circle.



- 1 The clock is made of **plastic** / wood.
- 2 The table is made of wood / **rock**.
- 3 The doll's clothes are made of **plastic** / cotton.
- 4 The bridge is made of **rock** / wood.
- 5 The socks are made of **cotton** / rock.
- 6 The pen is made of wood / **plastic**.

2 Read and circle *T* (true) or *F* (false).

- 1 Rock is natural. **T** / F
- 2 Cotton is soft. T / F
- 3 Wood is natural. T / F
- 4 Cotton is natural. T / F
- 5 Rock is soft. T / F



3 Natural and man-made materials.
Read and write yes or no.

I am in my science class. We are looking at natural and man-made materials. The tables are made of wood. It is a natural material. My chair is made of plastic. It is a man-made material. My clothes are made of cotton. My pencil is made of wood. Are they natural or man-made?

Reading Tip

Read the text carefully.
 Are the sentences correct?



- 1 The tables are made of wood.
- 2 It is a natural material.
- 3 The chair is made of rock.
- 4 Her clothes are made of cotton.
- 5 Her pencil is made of plastic.

yes

4 What are the objects in 3 made of? Read and write.

- 1 The tables are made of wood.
- 2 The chair is made of _____.
- 3 The clothes are made of _____.
- 4 The pencil is made of _____.

5 Think of an object. What is it made of? Draw and complete for you.

This is a _____.

It is made of _____.



Lesson 3 • What is the design process?

1 The design process. Look, read, and circle the words from the box.

share goal solution ~~problem~~
materials plan labels test

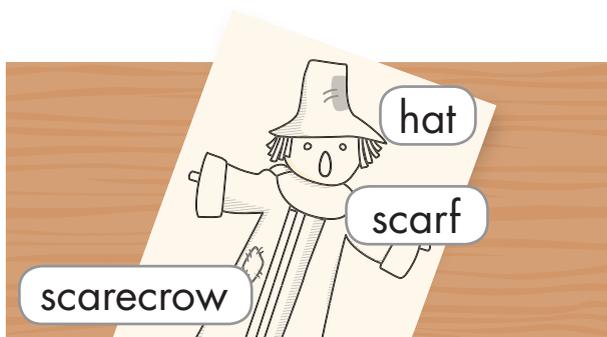
How do we solve a problem?



1 First, think of the problem.



2 Next, decide on the goal and think of a solution.



3 Make a plan and draw. Use labels.



4 Choose your materials.



5 Make a test.



6 Record, write, and share.

2 Look at the poster in 1. Read and circle.

- 1 What's the problem?
 - a The birds don't like the plants.
 - b The people don't like the plants.
 - c** The birds like eating the plants.
- 2 What's the goal?
 - a Make a birdhouse.
 - b Stop the birds eating the plants.
 - c Give the birds food.
- 3 What's the solution?
 - a Design and make a birdhouse.
 - b Design and make some clothes.
 - c Design and make a scarecrow.



3 Read and write. Use the verbs in parentheses.

- 1 First, make the body. (make)
- 2 Next, _____ the head. (make)
- 3 Next, _____ the nose, mouth, and eyes. (draw)
- 4 Next, _____ the scarecrow a scarf and hat. (give)

Grammar Tip

First, make a plan and draw.

Next, label the design.

4 Can you design a scarecrow?
Make a plan and draw.
Use labels.

wood rocks nails
tape hat scarf

