Inventing big ideas

Writing instructions

Click on the link below to go the lesson you wish to start!

Lesson 1- To learn about the role of an engineer

Lesson 2- To understand the engineering process

Lesson 3- To commit instructions to a memory map

Lesson 4- To write instructions (to build a home)

Lesson 5- To follow instructions (to build a home)

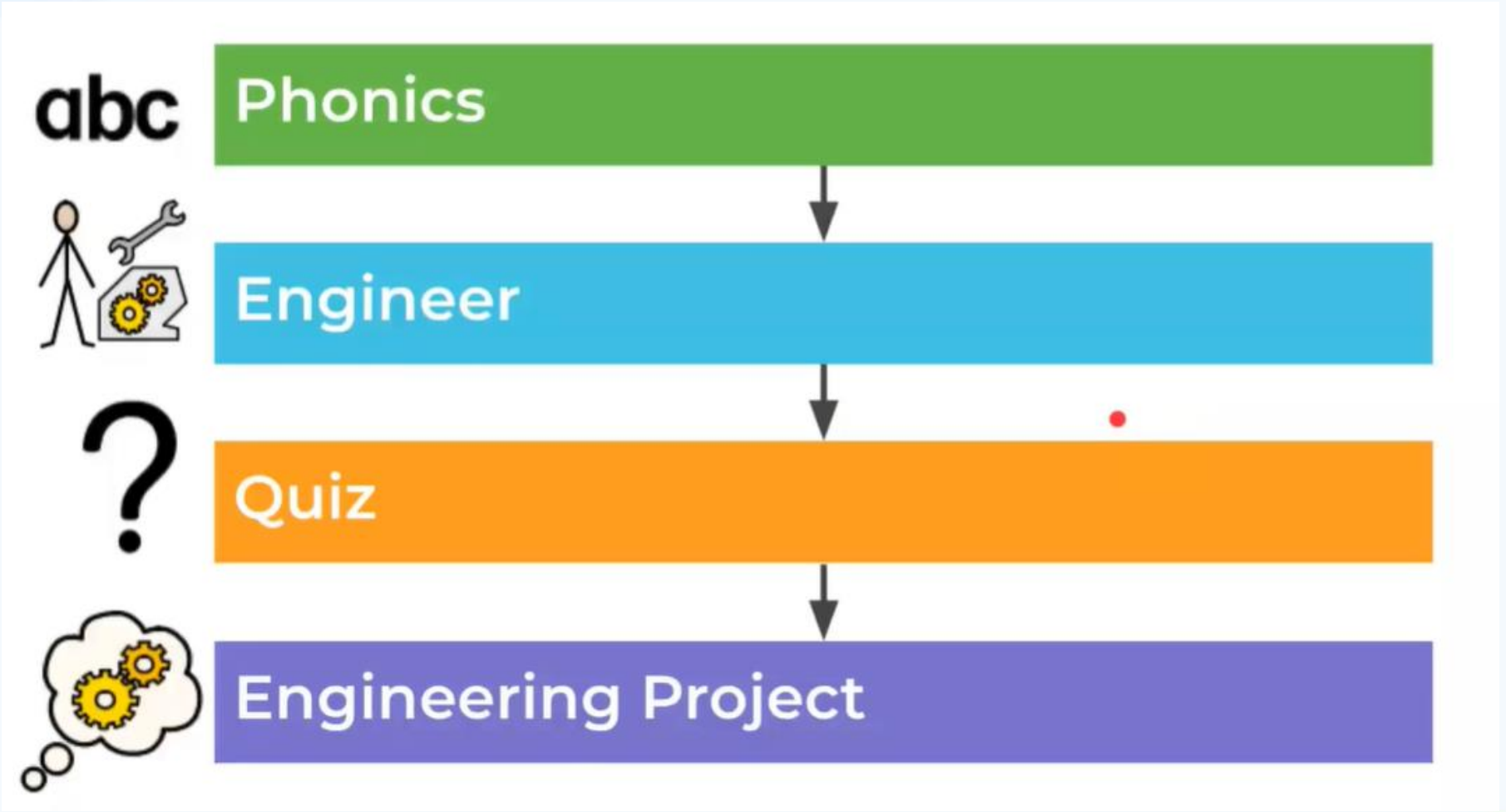
Lesson 1

To learn about the role of an engineer

- This week we will be learning about engineers.

We will think of things that we use every day that have been invented by engineers. We will then have a go at solving a problem and build our own bridge.

To learn about the role of an engineer



To learn about the role of an engineer

You will need...

Paper & pencil	Materials	Teddy talk partner

To learn about the role of an engineer

Click on the link below to start your lesson!

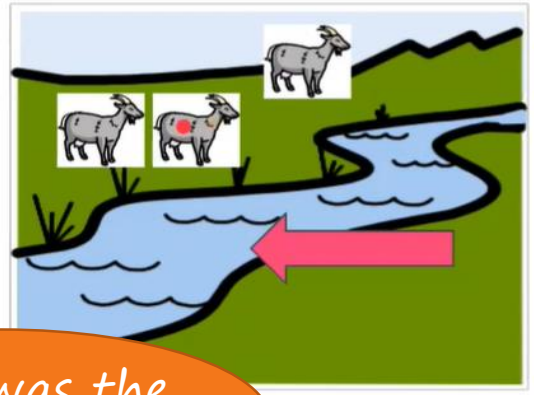
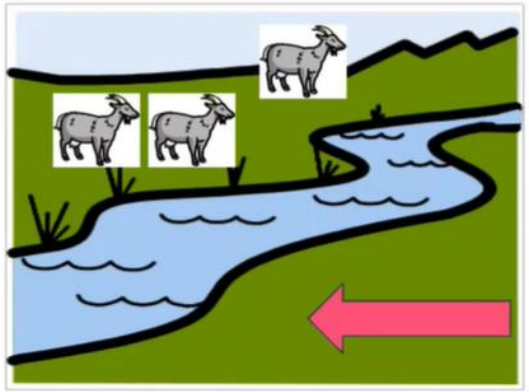
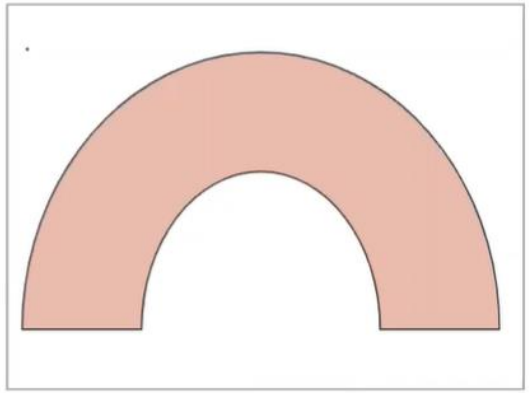
https://classroom.thenational.academy/lessons/language-focus-inventions

Activity: Design a bridge for the goats

Design

Why was it a problem to cross the river?

How did they fix the problem?

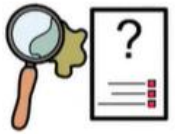
What?	Why?	How?
		

What was the problem?

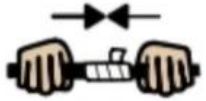
Your engineering project

Build

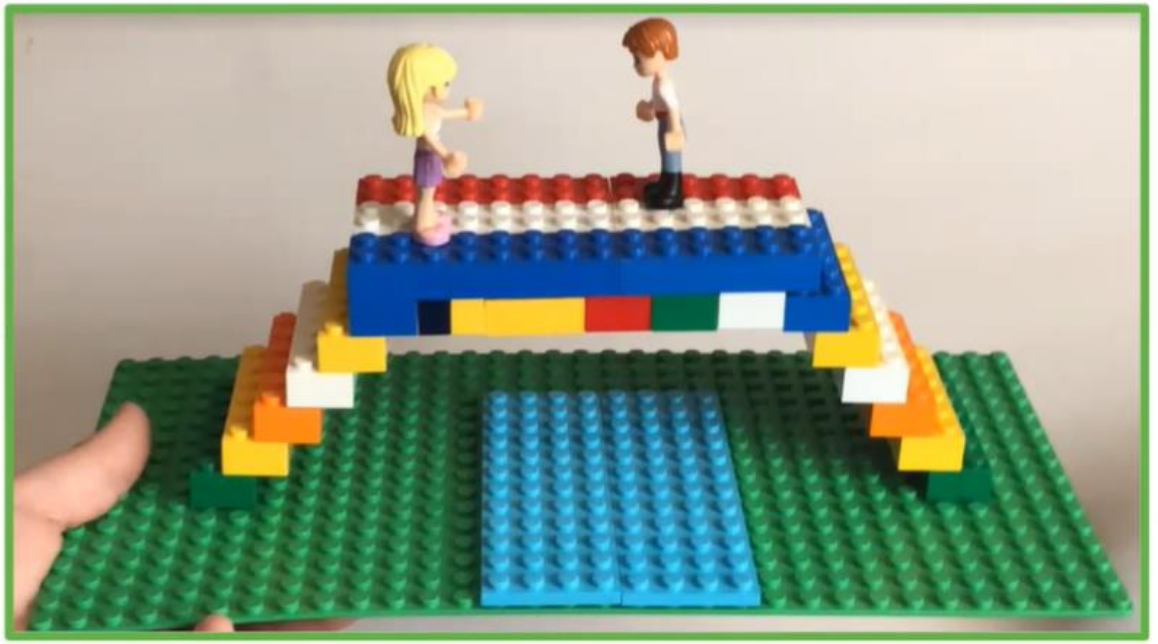
Material?



Test?



Fix?



You have finished Lesson 1 for this week!

Remember to email your teacher your design or model of your bridge.

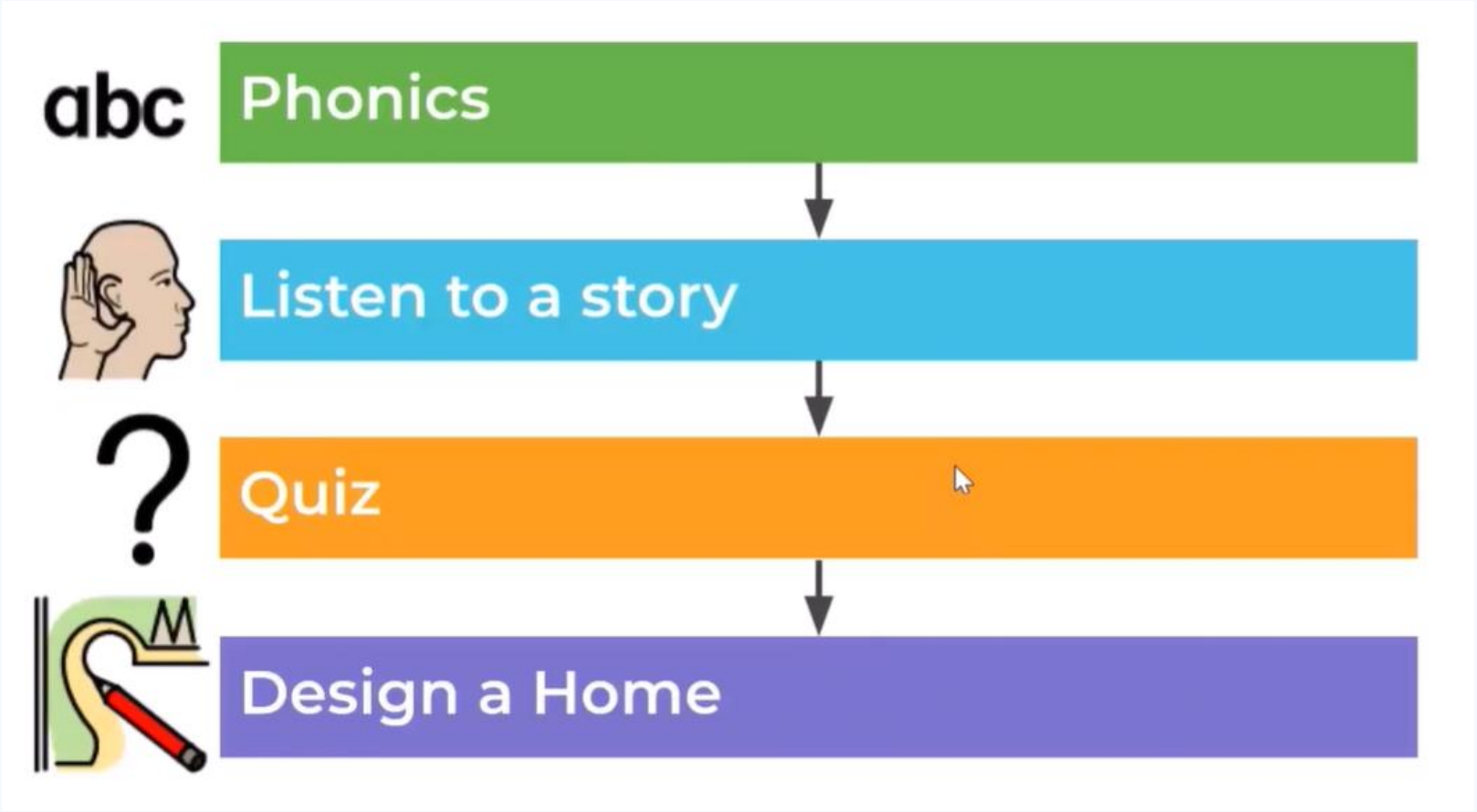
Click here to return to the menu page

Lesson 2

To understand the engineering process.

In today's lesson we will be listening to the story of Maisie Mears, Big ideas. We will learn about the engineering process. At the end of the lesson we will design a home for our teddy!

To understand the engineering process



To understand the engineering process

You will need...

Paper & pencil	Listening ears	Teddy talk partner

To understand the engineering process

Click on the link below to start your lesson!

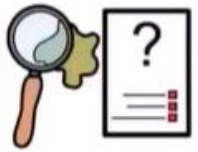
https://classroom.thenational.academy/lessons/hear-the-story-audio-retreival

The engineering process

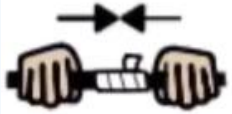
Activity: Design a safe, comfortable and warm home for your teddy!

Design

Material?



Test?



Fix?

Remember to follow these steps!

You have finished lesson 2

Remember to email your teacher your design of your teddy's home.

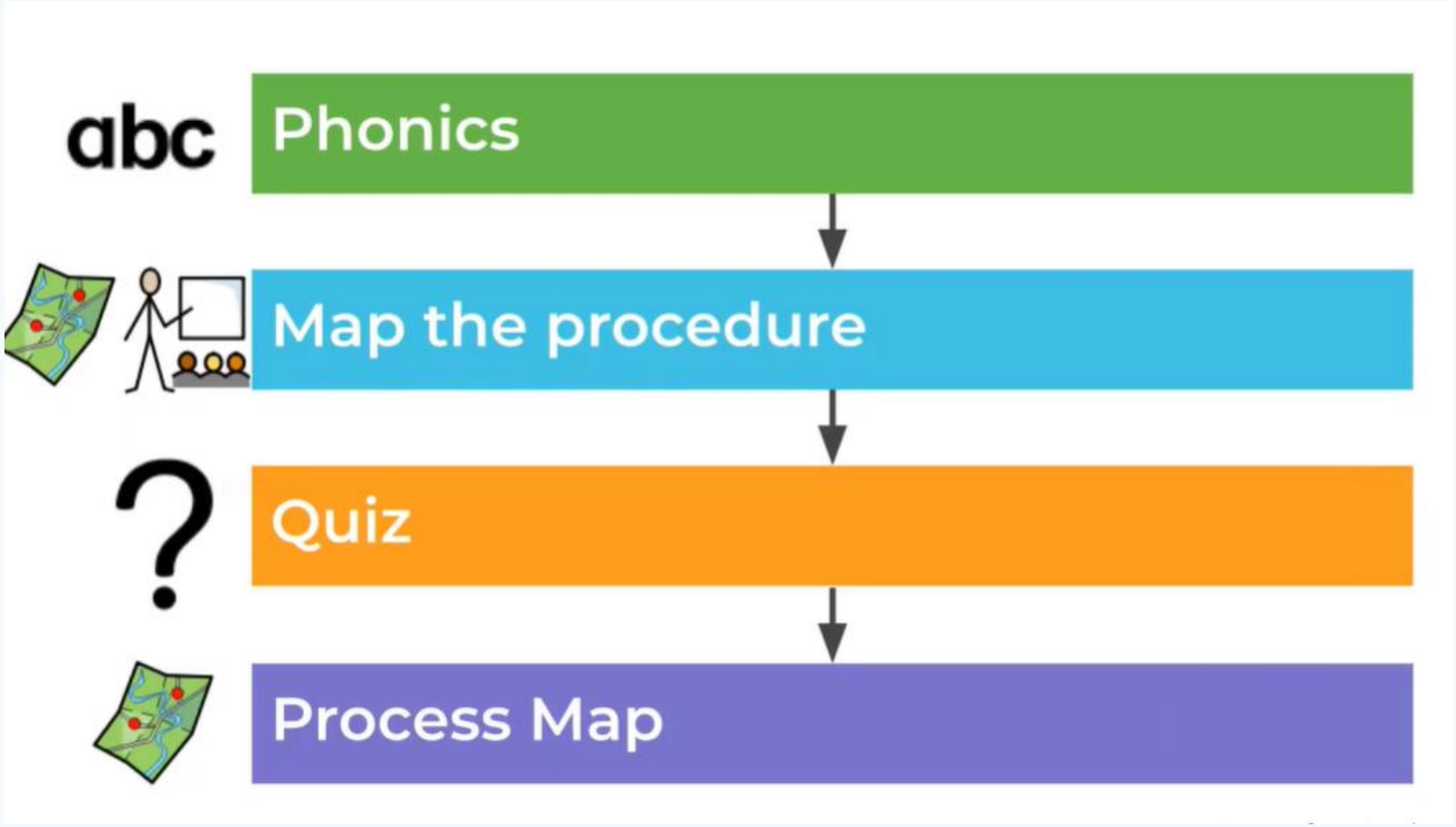
Click here to return to the menu page

Lesson 3

To commit instructions to a memory map

Today we will think about all the steps an engineer takes to bring a design to life. We will draw pictures to help us remember the process, and we will think about what we have in our life that has been engineered. You will need your maps in tomorrow's lesson when you will become an engineer!

To commit instructions to a memory map



To commit instructions to a memory map

You will need...

Paper & pencil	Coloured pencils	Teddy talk partner

To commit instructions to a memory map

Click on the link below to start your lesson!

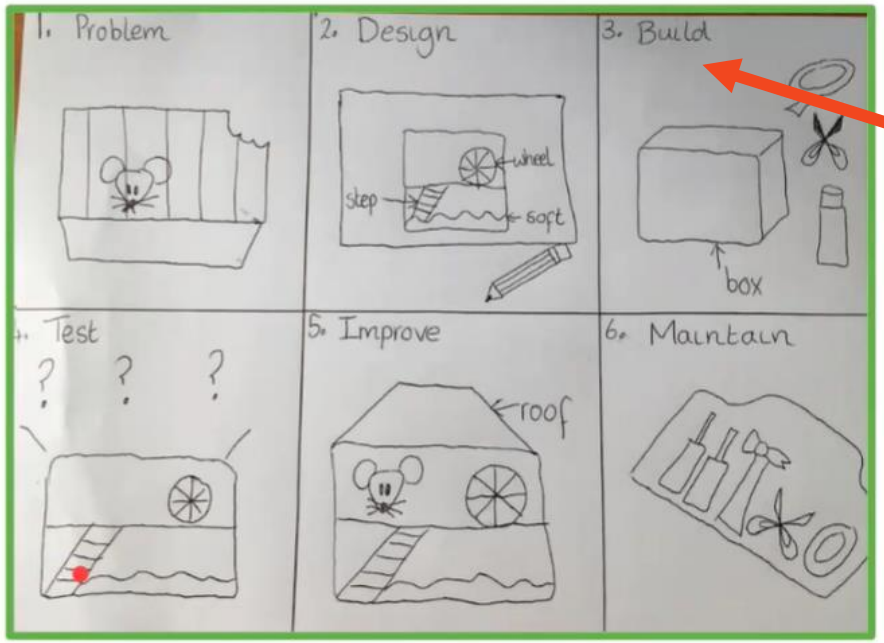
https://classroom.thenational.academy/lessons/commit-instructions-to-memory-map

Activity: Draw a map of the engineering process

Map

1. Draw

2. Write



Write one word in each box

You have completed lesson 3!

Remember to email your teacher your map of the engineering process!

Click here to return to the menu page

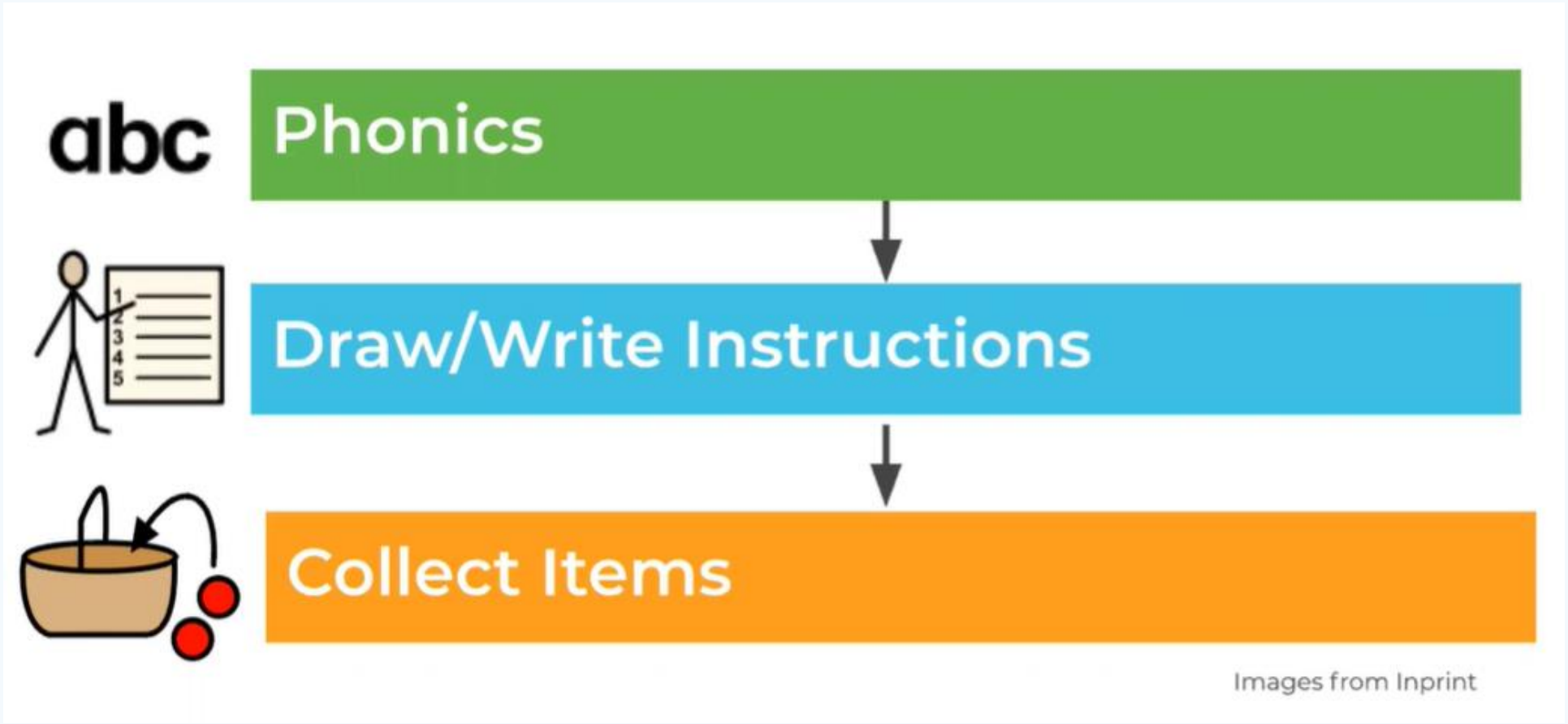
Lesson 4

To write instructions (to build a home)

Today we will plan to build a home for our teddies by writing instructions. We will think about how we can make the home safe, comfortable and warm and collect the items that we need.

You will need your instructions in tomorrow's lesson where we will be building the homes!

To write instructions (to build a home)



To write instructions (to build a home)

You will need...

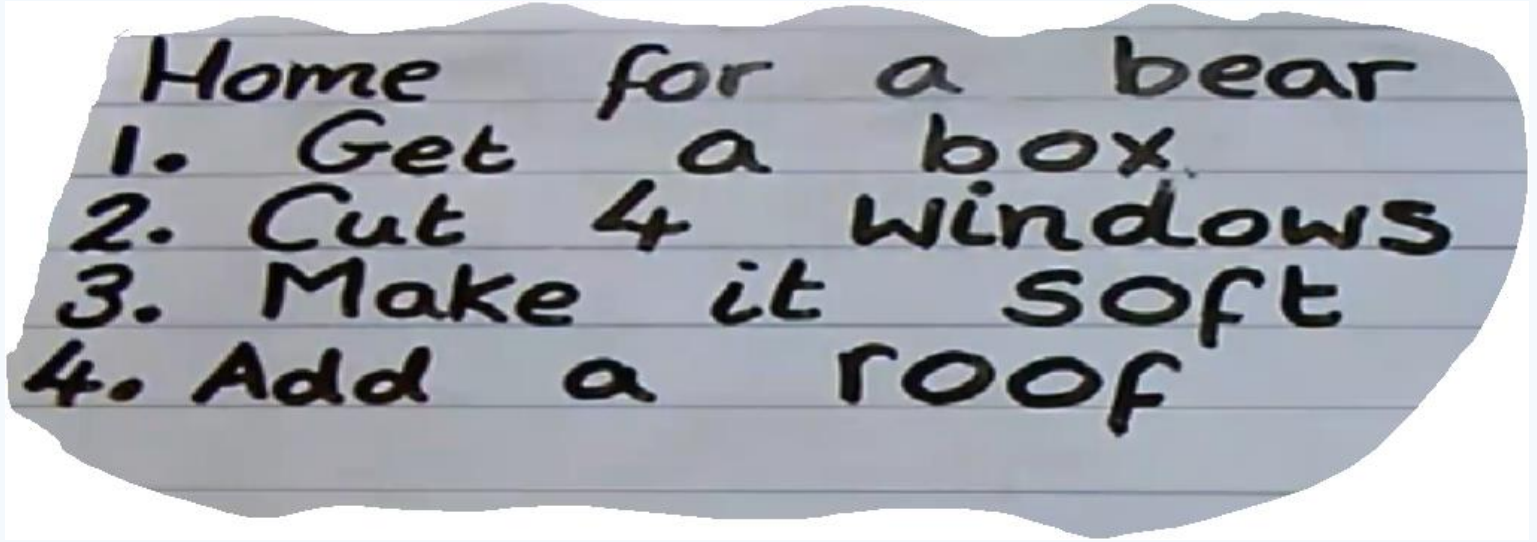
Paper and pencil	Home Design	Teddy talk partner

To write instructions (to build a home)

Click on the link below
to start your lesson!

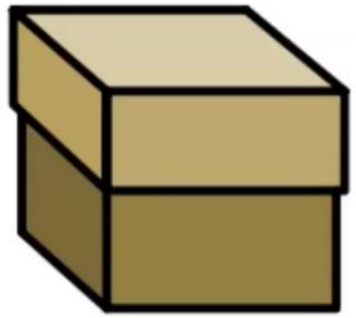
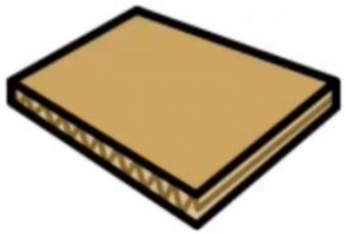
https://classroom.thenational.academy/lessons/write-instructions-to-build-a-home/

Your instructions could look like this:



Activity: Collect the items you need to build your home.

You may need...

Box	Blanket	Cardboard	Scissors & tape
			

You have completed lesson 4!

Remember to email your teacher your instructions on how to build a home!

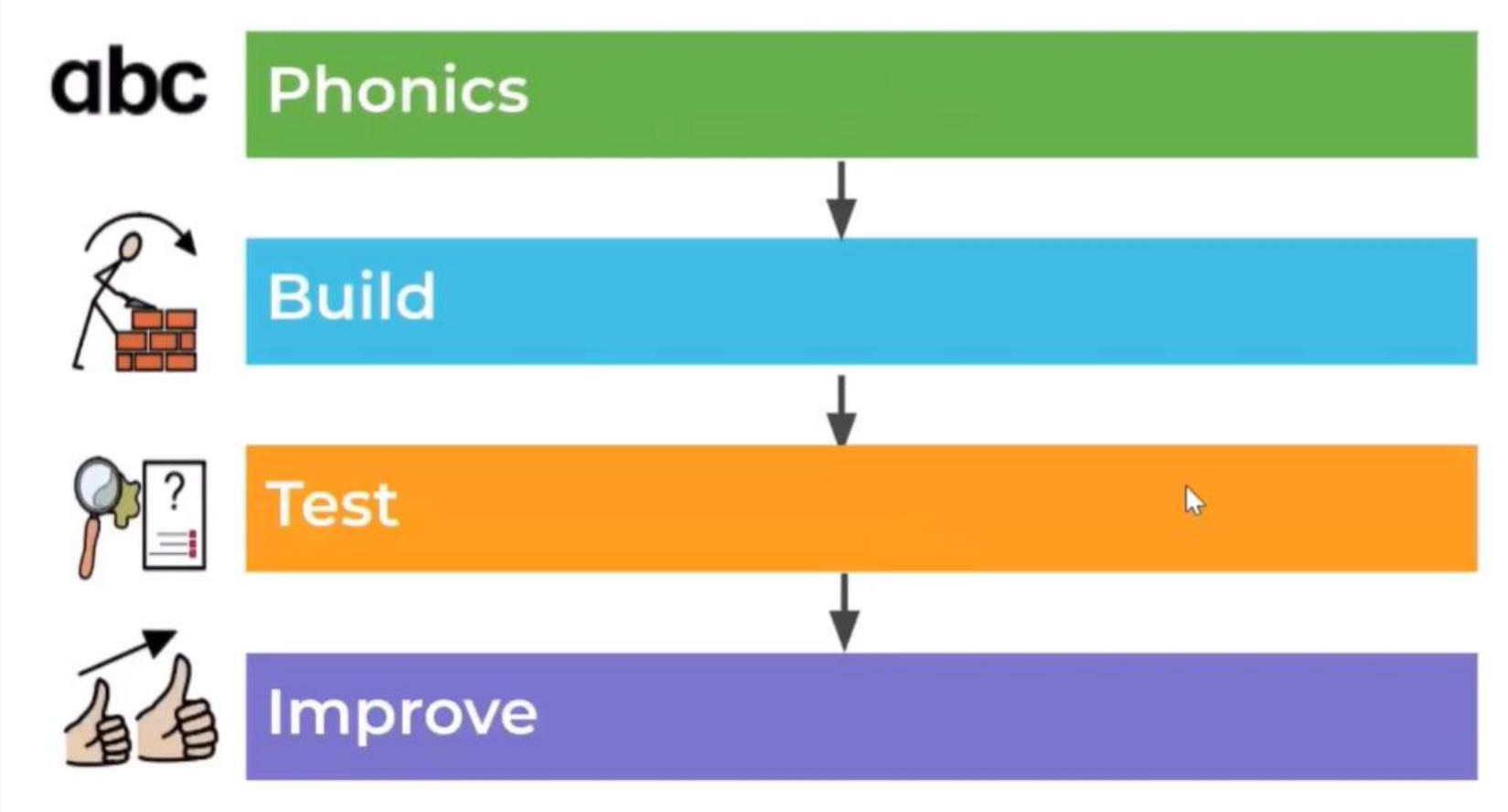
Click here to return to the menu page

Lesson 5

To follow instructions (to build a home)

Today we will be using the items we collected yesterday to build our home for our teddy. Using the instructions you wrote yesterday, you will test out your instructions and your design to see if it works. You may want to improve and maintain your design afterwards.

To follow instructions (to build a home)



To read a sentence (on a postcard)

You will need...

Instructions	Materials	Teddy talk partner

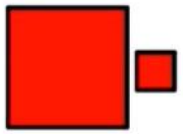
To read a sentence (on a postcard)

Click on the link below to start your lesson!

https://classroom.thenational.academy/lessons/to-write-a-sentence-on-a-postcard/

Activity: Can we improve our design?

Questions



Size?

Strength?

Light?

Look at the home you have built.

Can you improve the size of the home? Is it big enough?

Can you improve how strong the house is?

Can you improve how much light is going into the house?

You have completed lesson 5!

Remember to email your teacher your fantastic finished home that you have built!

Click here to return to the menu page