

Lesson 2: How Do We Know Things About The World
Activity – What Expertise is Needed To Make A Simple Object?

We use simple human-made objects in our everyday lives. A cup, a bag, a hat. But are they simple to make?

Let's explore the different expertise needed to make a simple object.

With a partner, choose a **simple** human-made object. Maybe it's something in front of you, something you're wearing, or something you used recently.

What object have you chosen?	
What are all of the components of the object?	Break the object down into each individual part and list them. Consider if there are parts made of different materials. For example, a shoe has a sole, insole, outer part, laces, and tongue.
What are the different areas of expertise needed to make each component?	If you need to carry out a chemical process to create an eraser, what kind of expertise would you need to have? Consider this question for each of the processes to make all the components of your item.
What are the ingredients or materials used to make each component? What are the different areas of expertise needed to source these materials?	Now that we've gone over the process and the expertise needed for each, what materials would you need to make each of the components of your item? For each material needed to create your object, consider the expertise needed to source each material. To get you started, you would need to know what it is, where it comes from, and where to get it.

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Comparison 1

Pair up with another group that has chosen a different object and compare lists.

Discuss materials and expertise for each other's object and add any new ideas in the space below.

Additional materials or expertise for your object	
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List the similar types of expertise needed for both objects despite them being different.

Partner group's object	
List similar expertise needed for both objects	

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Comparison 2

Pair up with a second group that has chosen a different object and compare lists.

Again, discuss materials and expertise for each object and add any new ideas.

What is your partner group's object?	
Additional materials or expertise for your object	
Similar expertise needed for both objects	
Write three or more points to show learning. What was interesting, surprising, or made you want to research further?	