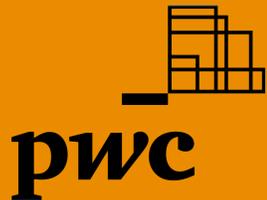


Technology Skills Curriculum

Lesson 9: Internet of Things



Agenda

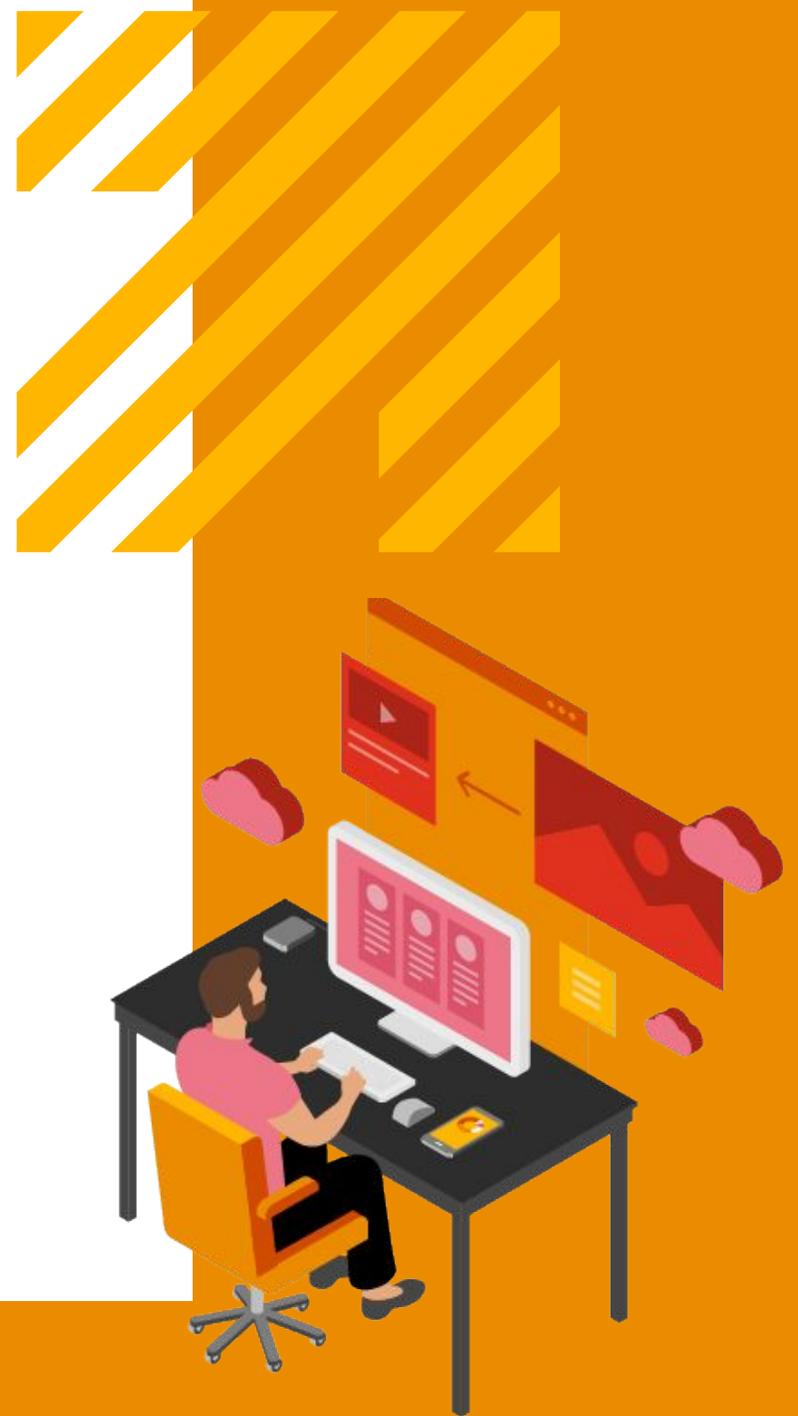
Let's get started

1. Getting started: Designing for others
2. Main activity: Smart clothing
3. Defining the User
4. Prepare and Try
5. Wrap up: Reflect
6. Careers reflection

Objectives

You will be able to:

- Empathise with a user's needs to design an object
- Create meaningful categories from a collection of ideas, specifically in the context of a brainstorm



01

Getting started:

Designing for others

Designing for others

Designing for other people can be challenging for a lot of reasons, but it teaches us to consider what **another person values, likes, or is concerned about**. In other words we need to have **empathy** for someone else.



02

Main activity:

Smart clothing

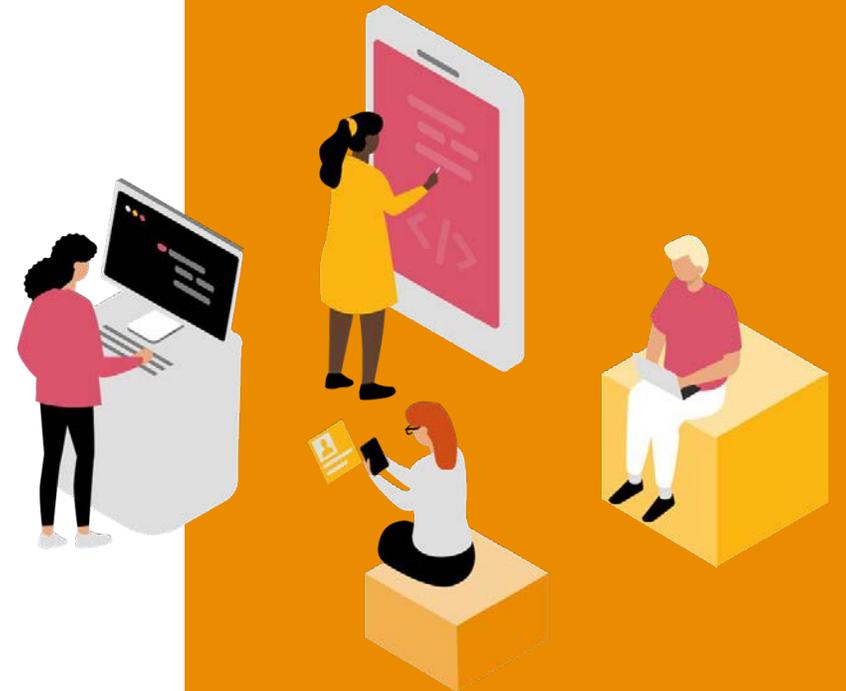
Smart clothing - Define the User

Today the product you will be designing is a piece of smart clothing.

Task

1. Brainstorm on your activity guides as many different potential users of smart clothing as you can think of.
2. Create a post-it for the two or three user types you think are most interesting
3. Discuss with your table at least one bigger category of users that you see on the board. Pick one of these categories you've decided to design for. Write their name in the 'Choose Specific User' section part of the activity guide

Smart clothing - Any piece of clothing that also integrates computing technology. It might have sensors that record data, change colors or display information, or even connect to the internet.



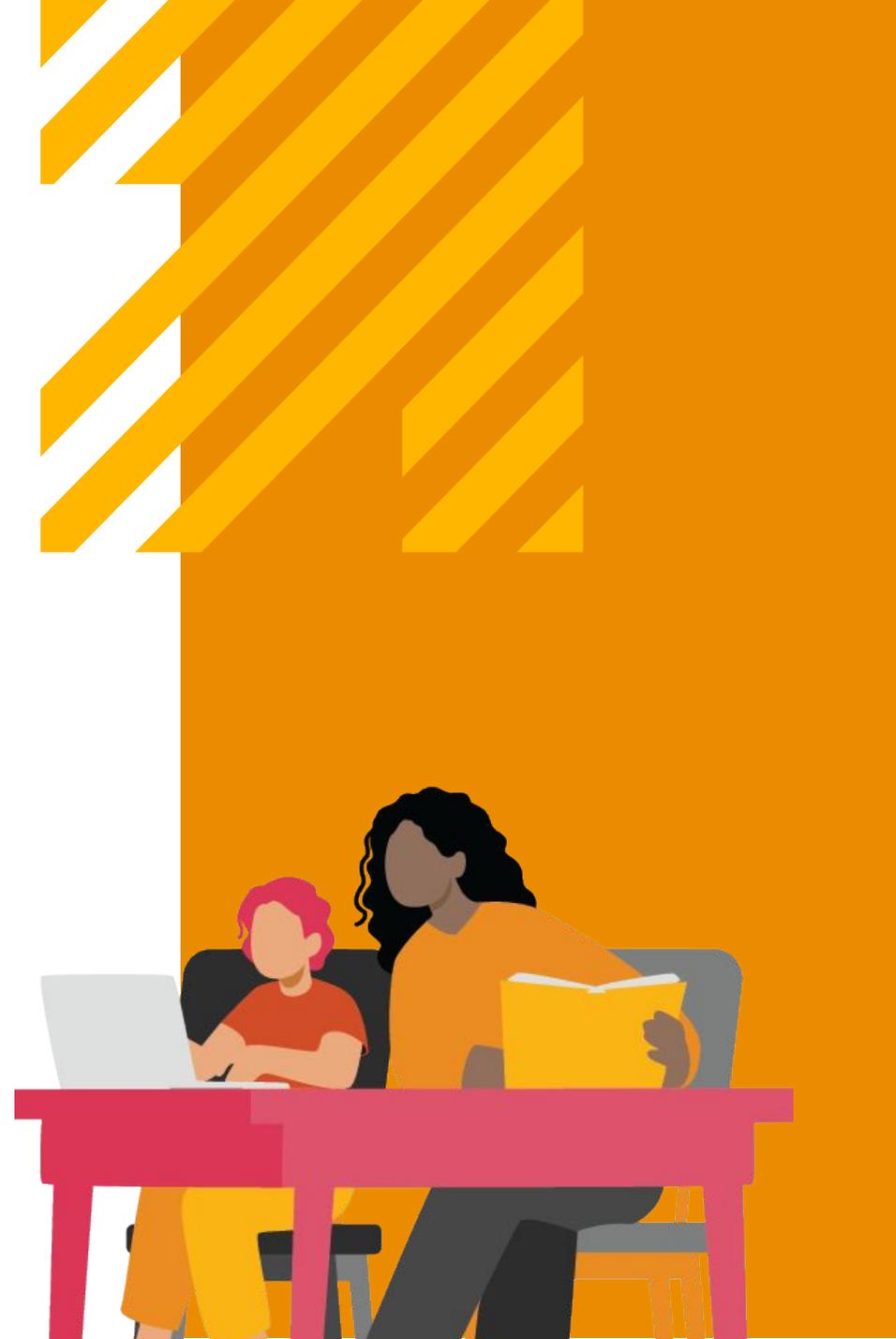
03

Defining the User

Smart clothing - Choose your User's specific need

Task

1. Write down in your activity guide a list of potential concerns, interests, and needs of the user that you have picked. Think carefully about what might be important to those people and write down these needs
2. In your groups create categories of needs by grouping together similar needs. Write these down on post it notes.
3. Pick the specific user need that you want to address and write this down in your activity guide. Try and pick a need you think could be addressed by smart clothing so in some cases you may need to be a little creative in thinking about these needs



04

Prepare and Try

Smart clothing - Preparing and trying your product

Task

1. Brainstorm in your activity guide potential **ways smart clothing could be used** to address the problem you've decided to solve.
2. Discuss in groups the **pros and cons of the proposed solutions** - use the table in your activity guide to write these ideas down
3. Write a description of what your product is and **how it addresses your user's needs**
4. **Stretch task:** Draw your product in your activity guide

Be prepared to share your smart clothing idea with your classmates



05

Wrap up: Reflect

Wrap up - Present your product

When presenting to the class you could talk about:

- Who your **user** is and what **specific need** you identified
- The **features** of the product designed
- How the features addressed the **need** you chose
- At least one feature of their product **you might not personally have included** but have to to meet the needs of your user

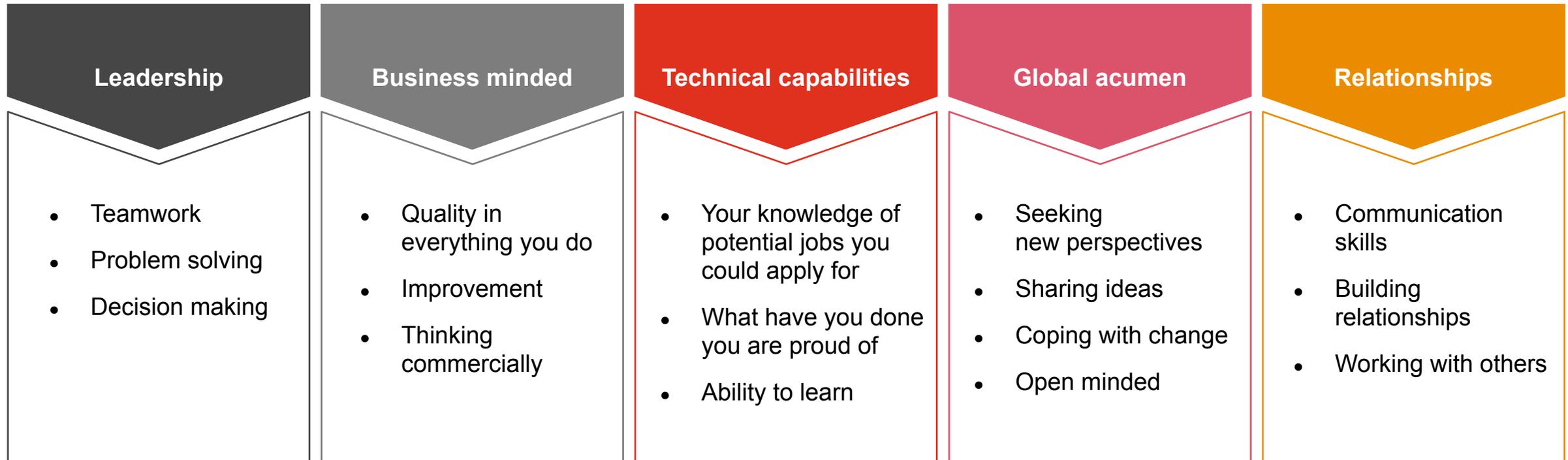
Watch this video: <https://www.youtube.com/watch?v=nKlu9yen5nc>



06

Careers reflection

What employability skills have you developed in this session?



Want to find out more?

Keep up to date: [PwC Podcast - spotify - A-Z of tech](#): A is for Artificial Intelligence, B is for Blockchain, C is for Cyber Security. Follow our journey through an alphabet of technology trends with PwC's technologists and special guests.

Opportunities in tech: You might be interested in technology opportunities at university or in the workplace. Lots of companies and universities have opportunities. **Here are some at PwC:**

- 5 day paid work experience 'Insight Weeks' for Year 12 students.
- Technology Degree Apprenticeships and Data Science Graduate Apprenticeships.
- School and College Leaver Apprenticeships at PwC



Thank you

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