Lesson Plan

Project title
Technology in the future

Context of project
During this unit, pupils will investigate some of the technologies which might be available to us in the future. They learn to use an online presentation tool, Prezi, to present their findings.

Learning Objectives
To be able to identify current technology that they have in their own homes
To understand how technology in the home will change over the next 10-15 years
To be able to identify some technology that might appear in homes of the future

Learning Outcomes
All pupils will: be able to list a variety of technologies that they have within their own home

Most pupils will: be able to identify some new technologies that we might see in our homes in the next 10-15 years

Some pupils will: be able to explain the possible impacts that future technology in our homes might have upon our daily lives, work, families and health.

Key Terms
Smart home, future technology

Starter
One question
Each pupil gets to ask one question in order to find out what the next topic will be about. The pupil who guesses is the ‘winner’

Main activity
Introduction
Play the following video clip from YouTube:
http://www.youtube.com/watch?v=2mxocMgUrvo

(If you do not have access to YouTube during lessons you might need to investigate how to access an offline version of this video)

Paired task
Each pair should identify five different technologies which they saw during the video clip. Take feedback from pupils.

technologies shown include:
- Fridge that knows what is in it
- Fridge knows the expiry dates of all food inside
• Kitchen bench which is ergonic and adjust itself to the correct height for the user
• Kitchen bench knows what food has been placed on top of it
• Plate with a microchip which can give recommended recipes depending on the food placed on it.
• E-table – giant ipod which controls the entire room
• Swipe the table with your mobile phone to access messages, music and photographs
• Send photograph to ‘frames’ on the wall
• Entire wall changes to suit music selected
• Widgets in children’s bedroom
• Worlds’ flattest flatscreen TV
• On wall games and language lessons
• Check text messages in the bath
• Fill bath automatically to preferred depth and temperature

Teacher introduction to unit
Explain to pupils that for the next few weeks they will be thinking about what types of technology might be around in the future, perhaps in the next 10-15 years.
Once they have completed their research, they will use a new presentation tool to put their findings together.

Show pupils how to access the ‘smart homes.doc’

Explain that they will be undertaking their own research and that they should aim to make short notes for future reference.

Individual task
Pupils should log onto their computer, make a new folder in their area and give it a sensible name.
They should then access the smart_homes_workbook.doc and begin their research.

Provide help and assistance as required

Plenary
Compare their research with another pupil and aim to add at least one new idea to their own booklet.

Extension
Write a paragraph explaining how the future technology in our homes might impact on our everyday lives in terms of leisure, work, family and health

Homework
Complete their research task ready for the next lesson.

Materials required
http://www.youtube.com/watch?v=2mxocMgUrvo
Smart homes.doc
You may:
  • Guide teachers or students to access this resource from the teach-ict.com site
  • Print out enough copies to use during the lesson

You may not:
  • Adapt or build on this work
  • Save this resource to a school network or VLE
  • Republish this resource on the internet

A subscription will enable you to access an editable version and save it on your protected network or VLE