

STEM Lesson Plan - Developing innovation skills

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| Class: Business Management Level 6, QQI | | Date: Sept 2016 | Teacher: Gráinne Quinn |
| Title of Lesson: Developing creativity and innovation skills! | | | |
| Objectives: 1) to encourage students to develop their creative skills using STEM learning techniques 2) to discuss creativity and identify examples of innovation in Ireland/the world 3) to develop a process that facilitates the student to generate an idea for a new business entity | | | |
| <p>Description of Learning Activities</p> <p>RELEVANCE Recap on previous lesson, developing a new idea requires creativity...can we learn this?</p> <p>ENGAGEMENT - connect to the NB of innovation in everyday life & Business</p> <p>COLLABORATION: - group-work using lego, to have fun and generate an innovative idea to present to your class!</p> <p>ELABORATION - Present your group idea!</p> <p>EVALUATE: - Document your group work and evaluate your personal input:</p> <p>REFLECTION - What questions? Students to review, reflect and provide feedback to teacher on lesson.</p> | <p>Assessment Methods - what technology?</p> <p>Informal – Discussion Is Innovation NB? 1. In pairs, talk about creativity. Consider the following: • What does the word ‘creativity’ mean to you? As a pair, write your own definition. • Do you know any creative people? In which ways are they creative? • What is the most creative thing you have ever done?</p> <p>Do you recognise the characters? • What do you think their invention is?</p> <p>In groups create an A3 poster, highlighting an idea for a product/services of the future, use LEGO building blocks to design the features of the product. Students play designer, and conceptualise a product of the future...</p> <p>Use a Poster/markers to communicate your ideas concept to the class, and present it to the class for example:</p> <p>Students to use google document, to facilitate creating a shared learning file to capture individual and group research, allowing time for group discussion. What have I learned? Use google drive to create a shared folder, called ‘reflection on learning’, share this folder with the teacher. Finally, create a google document to capture feedback on learning.</p> | <p>Resources and teaching materials:</p> <p>What’s in our future? video conceptualising future in 2116</p> <p>Developing innovation: Video Wallace & Grommit</p> <p>This link shows it in action: • Another contraption Wallace and Gromit have made is called the, ‘Snoozatron’. What do you think it might be?</p> <p>Take a Kahoot quiz on innovation</p> <p>Learning how to innovate is NB - see prezi to show processes of developing innovation</p> <p>example: Video - how to start using google docs check technology fluency</p> <p>What is reflection? show students a presentation to develop skill at being reflective and capturing individual learning processes</p> | |
| Stretch and Challenge and Extension Activities : | | | |
| Some teaching instructional design ideas and practices: Using relevant technology - allow for a higher level of instruction Using relevant technology in the classroom . Also see Lieberman for comprehensive list, for infusing technology into learning | | | |
| Learning outside the classroom Due in : | | Learning outside the classroom set for next lesson: Start thinking about your starting your own business, next class we will be engaging in an innovation workshop like this class! | |