# Lesson 37 – Project – micro:PET

Coding and Testing

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| The Big Picture – Why Is This Relevant? | Learning Objectives |
| * Any product that is sold or made goes through a rigorous testing process. This is to ensure that it is safe and performs as it is supposed to. This is often referred to as being fit for purpose. Therefore, testing that micro:PET is working as planned is important | * Know what a test plan is * Know how to complete a test plan * Apply and complete testing of micro:PET * Adapt, edit and make improves as required |
| Engagement – How Can I Engage Learners? | Assessment for Learning |
| * Explain the purpose of testing * Discuss the importance of testing the micro:PET and what could happen if no tests are conducted * Show a video of product testing (furniture, tools, clothes, cars etc.) as the Learners enter the classroom | **Expected Progress:**   * Learners sonduct a few tests of the micro:PET   **Good Progress:**   * Learners record test outcomes on test table * Learners find solutions and resolve issues   **Exceptional Progress:**   * Learners collect user feedback and make improvements and adjustment to the micro:PET |
| Key Concepts | Key Words |
| * Testing * Test table * User feedback |  |
| Differentiation | Resources |
| Teacher could refer Learners to other groups that have solved a similar issue.  Teacher could present solution for a whole class issue.  Keep a log of common issue and faults that Learners can access and refer to for support and solutions. | * Lesson 37 ppt * Lesson 37 Activity Sheet * Test table * User feedback table |
| Lesson Flow | |
| * Starter – answer questions and discussion on testing * Allow Learners 5 to 10 minutes to discuss and update where they are in terms of the project solution * Teacher to inform Learners that they will be presenting their projects in two lessons time * Remind the Learners of the Success Criteria * Introduce the concept of testing and the test table (Activity Sheet) * Learners begin testing elements of the micro:PET, record outcomes and then resolve issues and code / hardware errors * Learners may also choose to make improvements to the micro:PET and remove areas that are not working correctly * Teacher to circulate around Learners and offer support and solutions where required. Learners can also be referred to other groups that have solved a similar issue | |
| Making | |
| There are no making activities in this lesson. | |