Collaborative Lesson Planning Activity – Group #5

THE UNIVERSITY OF NEWCASTLE AUSTRALIA

Digital Technologies Content Descriptor

on BBC website no 5

ACTDIP019: Design, modify and follow simple algorithms involving sequences of steps, branching, and iteration (repetition) (Stage 3) Objectives - to understand concept of an ~~codeline~~ algorithm by repetition

NSW Syllabus Outcomes links
Maths   P+A.
Eng.   C.A. -

Title and Introduction

Metalanguage algorithm, Sequencing, follow instructions,

Activity

① What is algorithm? code.org. Youtube — BBC website has good info
   unplugged task   - Program a toy car to move between
② Follow simple algorithms _   two locations (see BBC)
   Lightbot - ipad minis (Puzzle game)
③ Modify
   Scratch remix project
④ Creative computing
   Design task

Assessment and Reporting

used strategic whole class / individual questioning
recorded student progress on checklist
facilitated whole class / peer feedback sessions
encouraged student self reflection (after design task)

Resources ~~Teach Starter~~ → Pirate Pete, SL
BB bytesize - link in course outline.
Light bots   code.org.

Series of videos on code.org
↓ eg leadlight tutorial, code - org