

# Collaborative Lesson Planning Activity – Group #3



## Digital Technologies Content Descriptor

ACTDIP010: Define simple problems, and describe and follow a sequence of steps and decisions (algorithms) needed to solve them (Stage 2)

### NSW Syllabus Outcomes

(N) S2 Data Strand - Maths  
Working Mathematically  
Position- grid points, x,y axis, compass directions

(C) Informative texts- procedures  
(S&T) Developing & applying a plan & sequence for production that considers time & resources.

**Title and Introduction** An Introduction to Coding.

**Metalanguage** Position, grid points, procedures, loops,

### Activity

(C) Write a detailed procedure for a set problem (eg walking to the office).  
(N) Computer Science - unplugged - Black & white position activity.  
(S&T) Lightbot - a) 2 lessons introduction to basic coding.  
b) Follow a sequence using the fewest number of steps.

Scratch -  
1) Model - Moving L, R, U, D, change background  
2) Add a sound, add a sprite,  
3) Start a dance & use repeat function  
4) Speech  
5) Say something  
6) Green Flag

### Assessment and Reporting

- Can identify and solve simple problems using a sequence of steps.
- Follow a sequence in the smallest number of steps.
- Assess saved Scratch creation.

**Resources** Computers (or lab) / ipads

Scratch apps installed.

CS unplugged - Binary numbers sheet.

Scratch instruction manual

**Potential Challenges** - computer/ ipad access