

Which of the following outcomes from the Digital Technologies strand of the new K-6 Science and Technology Syllabus does the planned lesson address? Please circle all those apply.

Stage 1

- uses materials, tools and equipment to develop solutions for a need or opportunity (ST1-2DP-T)
- describes, follows and represents algorithms to solve problems (ST1-3DP-T)
- identifies the components of digital systems and explores how data is represented (ST1-11DI-T)

Stage 2

- selects and uses materials, tools and equipment to develop solutions for a need or opportunity (ST2-2DP-T)
- defines problems, describes and follows algorithms to develop solutions (ST2-3DP-T)
- describes how digital systems represent and transmit data (ST2-11DI-T)

Stage 3

- plans and uses materials, tools and equipment to develop solutions for a need or opportunity (ST3-2DP-T)
- defines problems, and designs, modifies and follows algorithms to develop solutions (ST3-3DP-T)
- explains how digital systems represent data, connect together to form networks and transmit data (ST3-11DI-T)

NSW Syllabus Outcome(s): Does the lesson involve concepts or outcomes from the Science and Technology syllabus that are not listed above or that are from another Key Learning Area (for example, English or the Creative Arts)? If so, what concepts and outcomes are these?

ST2 - 30P - T

Follows algorithms

PDHPE - fundamental movement

Sxills

English - communic ation

Speaking + listening

Introduction: How will you get the students motivated, curious and ready to learn?

10 minutes - Lightbot game
higher ability independent
lower ability with teacher INB

Metalanguage: What are the key concepts or procedures that you want students to understand as a result of this lesson?

commands

sequences computational thinking specific

position S



Teaching Activities: What strategies will you use to teach the content and skills? How long will you spend on each of those strategies and with the content? How would you address different levels or prior knowledge?

Lesson Closure: How will you bring the lesson to a conclusion?



Assessment: How will you know whether the students achieved what you wanted them to achieve?

Resources: What materials do you need for this lesson? Have you used ideas from elsewhere?

Lightbot - devices x 15-30

Hula hoops

clip boards

Chess set grid paper 5 x 5 or strips

pencils Task cards

bean bags

other props