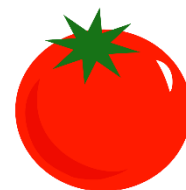# S1 Integrated Science
SDLS Project: Factors affecting the growth of tomato seedlings
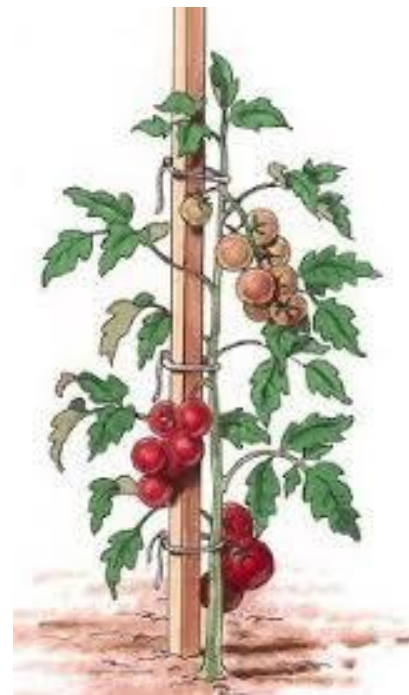
Name: _____   Class: _____ (   )   Group: _____

Experiment Design

A. Hypothesis

_____

_____

B. Materials and apparatus

C. Variables in this experiment [How to make a fair test?]

Independent variable *(What we change)*	
Dependent variable *(What we measure)*	
Controlled variable *(What we should keep the same)*	

D. Experimental procedure

i) Draw a pictures (with labels) to show your set-up.

ii) List out the steps you are going to do in this experiment.

[Hint: Mention the materials, apparatus, amount, volume, etc. clearly in your steps.]

_____

_____

_____

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E. Results [Hints: Use a table to show your data.]

F: Conclusion (Give answer to your hypothesis.)

_____

S1 Integrated Science
SDLS: Tomato Project

Class: _____   **Group: _____**

Name: _____

_____

_____

_____

_____

Hypothesis:_____

_____

Self-evaluation Form

How can I improve my experimental design by using the feedback in the iLAP discussion forum?

Questions raise from other groups	Our improvement

Our SDLS investigation

What factor affect the growth of tomato seedlings?

Factors studied by 1B

Factor	Group
Presence of light	2
Presence of fertilizer	1
Amount of water	3, 4, 8
Presence of lemon tea	6
Frequency of watering	5
Presence of music	7

Why did you choose that factor as your hypothesis?

Up to this time, do you discover any change(s) of your plants?

What is your prediction of your investigation?

Neighbouring bean plants experiment

Do plants complete for the resources?

How do they complete for the resources?

The responses of plants may be out of our expectation!

Furthermore

What do you want to know more about plant grow?

From the growth of our tomato seedlings, **frame one** **question** that you want to have more study.

Task 1 (Individual)

Write down your own **inquiry question**.

What is the criteria of a good question?

- interesting

- related to daily life

- Do not have clear and simple answer

Furthermore

What do you want to know more about plant grow?

Task 2 (Group)

1. Share the questions in your group.
2. Select one good question among all.

Task 3 (Group)

1. Construct a **mind map** of the selected question.

2. Use the following hints to help your thinking.

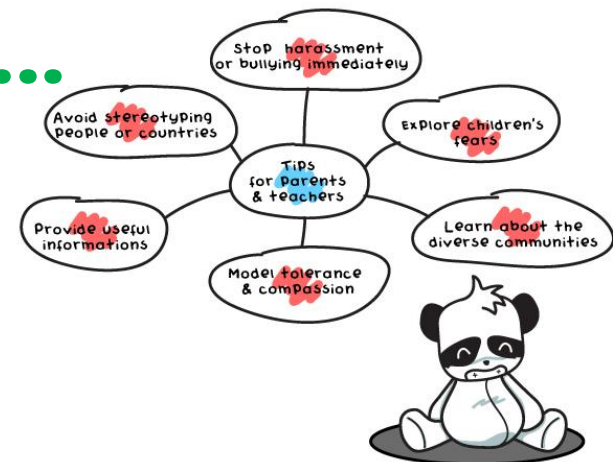   ✓ We want to explore this question because ….

     ✓ Our ideas are ….

     ✓ What I want to know is ….

     ✓ How it is possible?

     ✓ New learning

Mind Map

Task 4 (Group)

Presentation