Saint Andrew's Junior School Science Department

Mission: To develop each Science pupil to be an inquirer, innovator and environmentalist

Vision: Inculcate in pupils a sense of wonder/curiosity and equip them with skills in exploring and discovering such that they aspire to make a positive impact in future





Dept pedagogy remains-only change is addition of "challenge" to the problem



5Es pedagogical approach

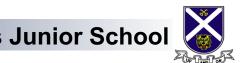
Engage

Explore

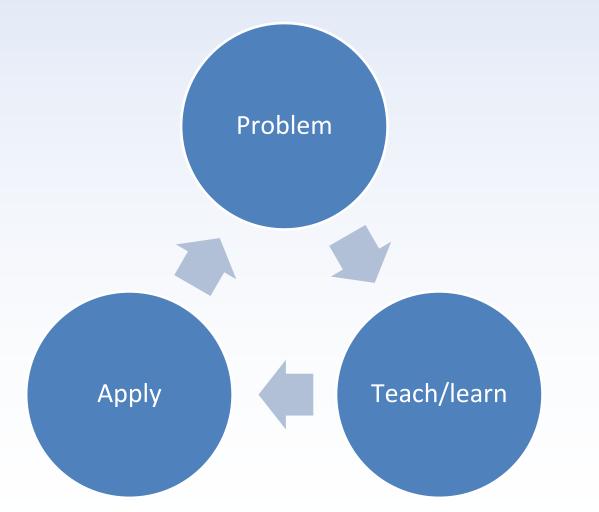
Explain

Elaborate

Evaluate



Science Pedagogical Process Flow Problem (P), Teach/learn (T), Apply (A)





Problem-Teach-Application

Problem (Reproduction in flowering plants)

A plant species is in danger of being extinct. As a scientist, you have discovered that the seeds can't be dispersed far away from the parent plant. At the end of this topic, recommend what can be done to the design of the seed to overcome this problem. In doing so, you hope to prevent the extinction of this plant species.

1. State what way(s) that seeds can be dispersed by.

Activity 1.1 – A complete flower

Aim:	To identify the parts of a flower.
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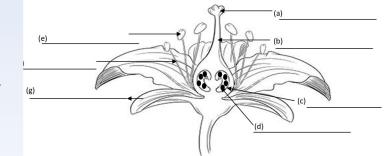
Materials: (1) Tiger lily (2) Magnifying glass

Procedures:

- 1. Your teacher will provide each group with a dissected tiger lily.
- 2. Observe the dissected tiger lily carefully with a magnifying glass and identify the male and female reproductive parts.

Observations:

1. Label the diagram showing the parts of the tiger lily.



Remove the petals. What is the sticky liquid that is found at the base of the petals? What role does this liquid have in the process of pollination?

Video Introduction

What do you see in the video?

Problem-Teach-Application

Application (Reproduction in flowering plants)

A plant species is in danger of being extinct. As a scientist, you have discovered that the seeds can't be dispersed far away from the parent plant. Recommend what can be done to the design of the seed to overcome this problem. In doing so, you hope to prevent the extinction of this plant species.

1. Refer to your answers in page 2, what new way(s) you have learnt that allows the seeds to be dispersed by.

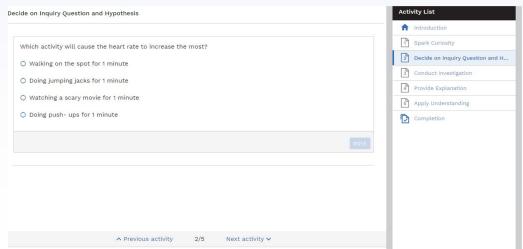
2. Least effective way of seed dispersal.





Blended learning on SLS









Presentations

Group work



P5 Checkpoints

Term 1	Term 2	Term 3	Term 4			
Weighted (10%)	Weighted (10%)	<u>Weighted (10%)</u>	Semestral Assessment 2			
Topical Review	Topical Review	Topical Review	(70% of overall)			
Reproduction of	· Unit of life	Forms of Energy	· Booklet A, 28 MCQs			
flowering and non	• Water and changes of	Electricity systems	(56 marks)			
flowering plants	state.	Using electricity	· Booklet B, 12-13 OEs			
Reproduction in	· The water cycle	The plant transport	(44 marks)			
Human		system	 Total: 100 marks 			
			 Duration: 1h 45 min 			
		Practical Assessment				
		<u>(Formative) Non weighted</u>	<u>Topics</u>			
			P3 – Diversity, Systems,			
		P3- P5 Topics	Interactions			
			P4 – Cycles, Energy			
			P5 - Cycles, System, Energy			



Booklet	Item Type	No. of Questions	Weightage	Duration
A	MCQ	28	56%	1hr 45min
В	Open- ended/ Short- answer	12-13	44%	



Home routines that can support learning of Science

- Linkage of Science to everyday activities or phenomena.
- Guide him in research information from books / websites
- Ensure that he completes all assignments / corrections.



- Science Notes
- Weekly MCQ on SLS
- Supplementary Lessons
 - Answering technique
 - P.R.I.D.E
 - C.E.R
 - Guide books
 - Science PSLE Revision Guide



Thank you!

