Session 3

By the end of this session participants will have:

- Discussed and reflected on approaches to completing genetics SPA 3.3.2(k)

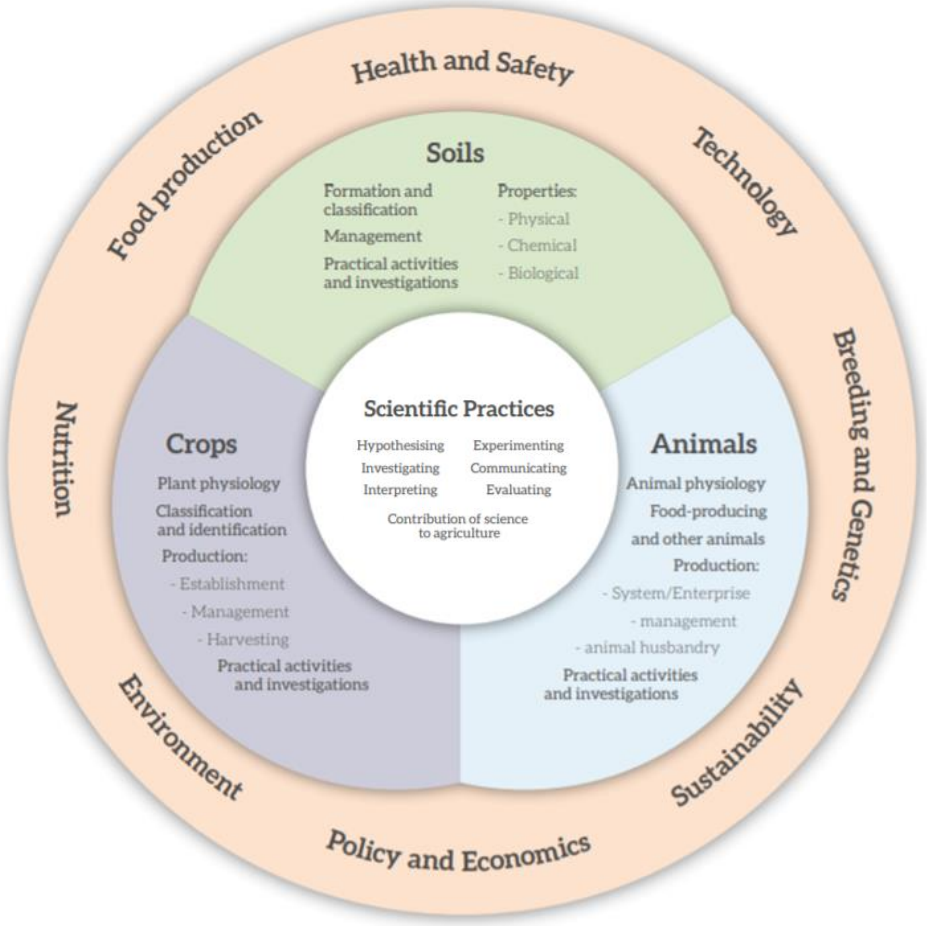
- Finalised their action plan with a particular focus on actions to take and resources needed

Presenting Real World Content for Investigations

How does this genetic concept link to the specification?

Pg 17

Connecting to the Specification



Pg 17

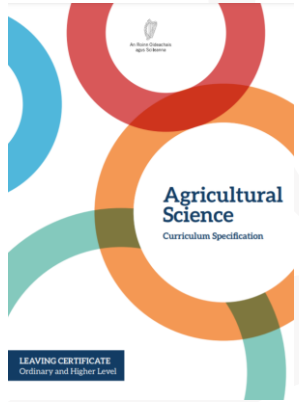
Understanding SPA 3.3.2(k)

Investigate *the* ***complexity*** *associated with the genetic inheritance of traits by* ***hybridising*** *two varieties to determine the* ***rate of transfer*** *of the required trait (e.g. petal colour) to the next progeny**

Pg 18

pg 21 Specification

Think
Pair
Share



Possible Approaches to SPA 3.3.2(k)

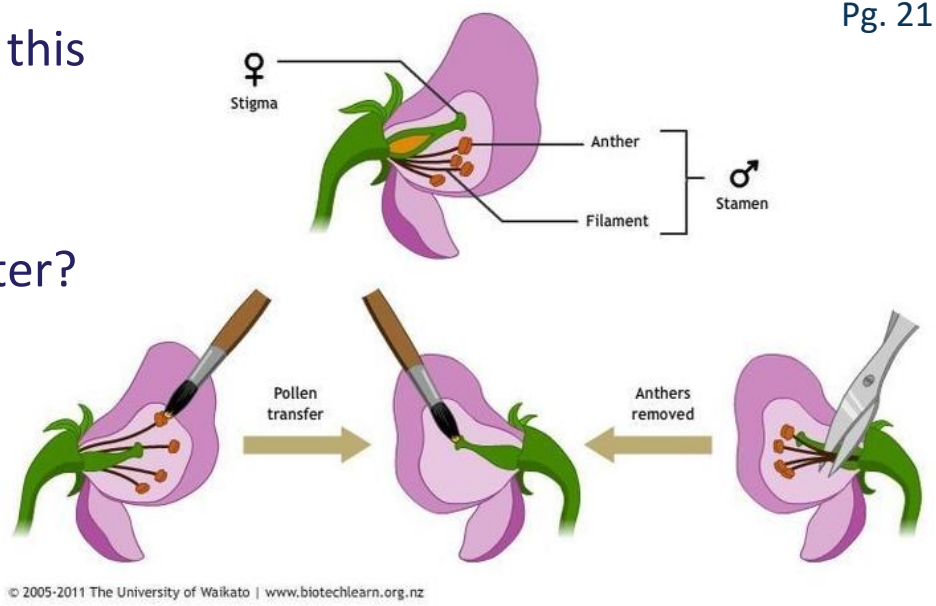
Pea Trait	Dominant trait		Recessive trait		Numbers in second generation (F2)
Seeds					
Seed shape	Round		Wrinkled		5474:1850
Seed colour	Yellow		Green		6002:2001
Whole plants					
Flower colour	Purple		White		705:224
Flower position	Axial		Terminal		651:207
Plant height	Tall		Short		787:277
Pod shape	Inflated		Constricted		882:299
Pod colour	Green		Yellow		428:152

Pg 19 + 20

Alternative Approaches to SPA 3.3.2(k)

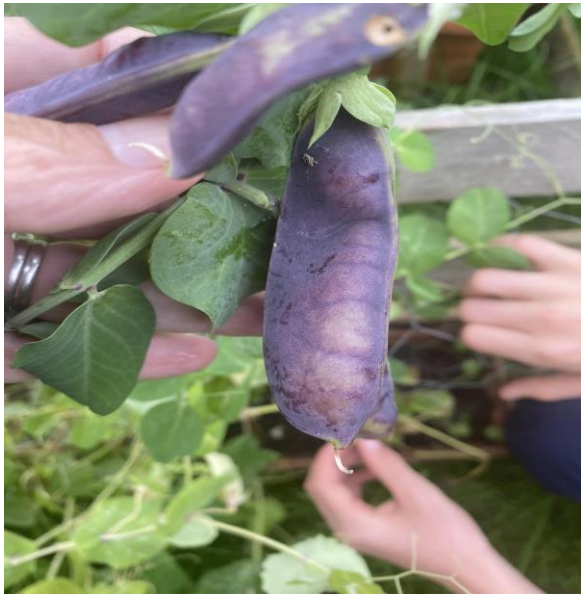
Pg. 21

1. How did you previously investigate this SPA with your students?
2. What types of plants did you use?
3. What complexities did you encounter?



Mendelian Approach to SPA 3.3.2 (k)

Exploring Mendel's laws of inheritance to consider dominant and recessive genes



Finalising our Action Plan

Pg 14

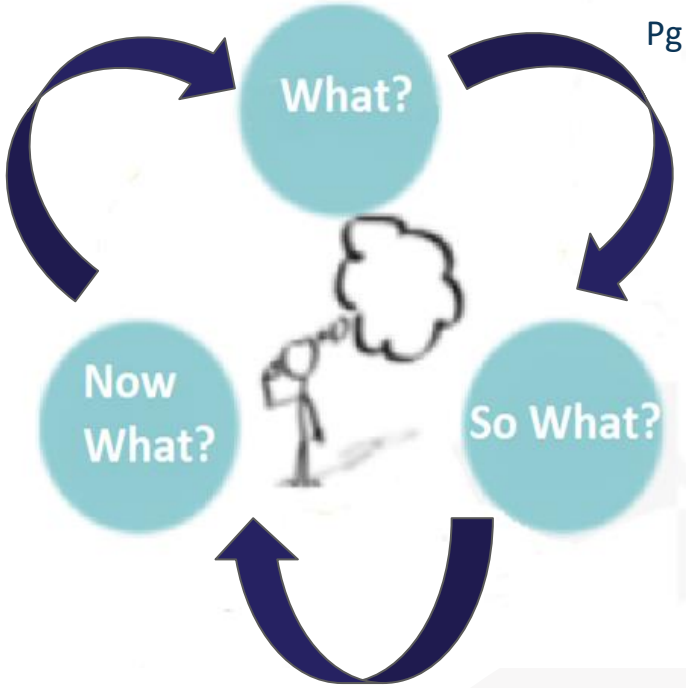
Now what? …

- Continue to add actions to your plan

Agricultural Science National Workshop 6 - Workbook

Action Plan

Actions to be taken	Steps to be taken	Resources you will need (links, people)
		



Rolfe et al., 2001

Next Steps

Pg 14

Take a few minutes to return to your action plan

- **S -** Strengths
- **O -** Opportunities
- **A -** Aspirations
- **R -** Results

Collaboratives 2022

- Shared values and vision
- Collective responsibility
- Trust
- Collaboration
- Reflection

(Adapted from the work of Hargreaves and O'Connor, 2018).

Session 3

Participants will now have:

- Discussed and reflected on approaches to completing genetics SPA 3.3.2(k)

- Finalised their action plan with a particular focus on actions to take and resources

National Workshop 6 Evaluation

Please complete the evaluation form: