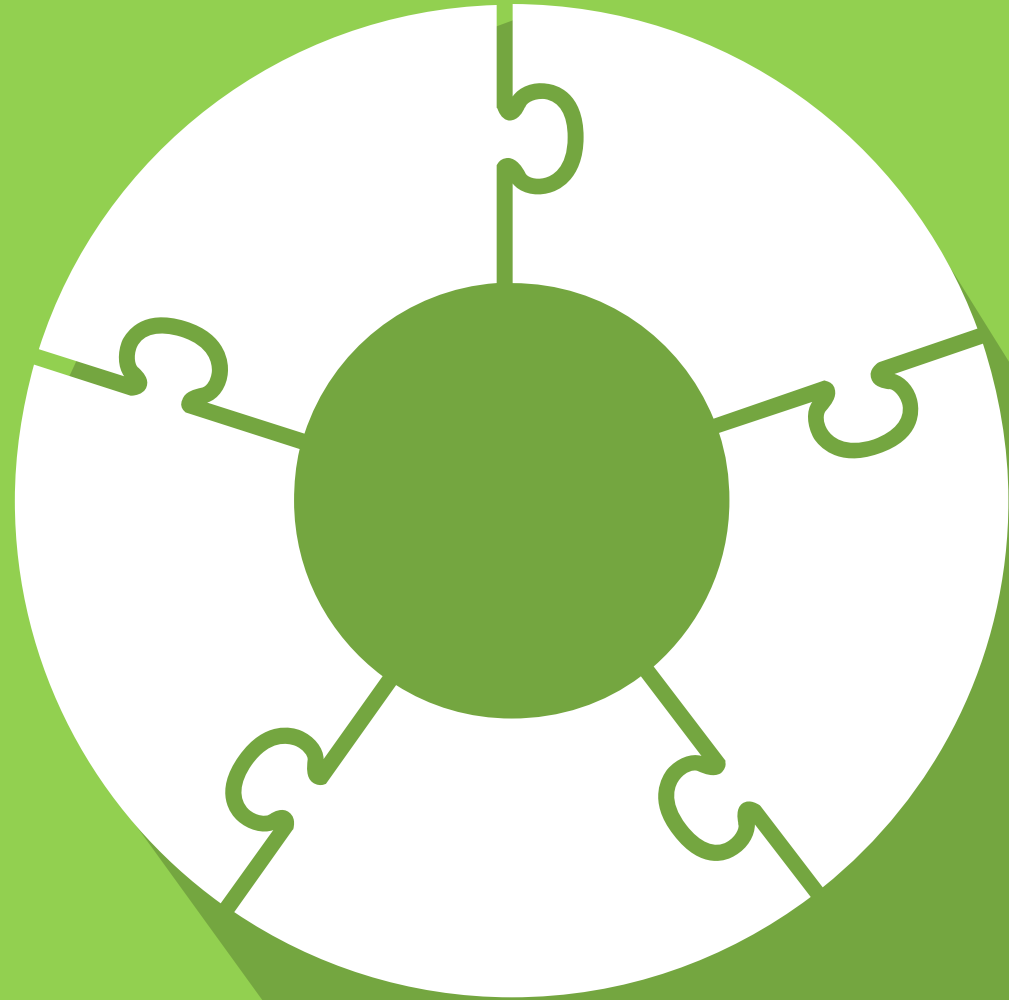




# KNOX ACADEMY

## NUMERACY & COMPUTING FACULTY

Faculty Improvement Plan  
SESSION 2018 - 2019



# Results Analysis 2018



Estimates vs Actual grades for S4 National 5 Candidates

Class	First Name	Surname	Estimate	Result	Match	Class	First Name	Surname	Estimate	Result	Match
			7	3	Yellow				2	2	Green
			5	2	Green				2	2	Green
			2	2	Green				1	2	Green
			7	4	Yellow				6	6	Green
			6	4	Green				1	1	Green
			5	8	Red				4	4	Green
			3	3	Green				1	1	Green
			6	8	Red				5	4	Yellow
			2	2	Green				4	6	Red
			2	1	Green				4	4	Green
			2	3	Red				4	2	Yellow
			4	4	Green				5	6	Green
			8	8	Green				2	2	Green
			1	1	Green				7	6	Yellow
			2	2	Green				1	2	Green
			7	6	Yellow				5	5	Green
			2	2	Green				3	2	Yellow
			1	1	Green				3	2	Yellow
			4	4	Green				1	2	Green
									4	4	Green
			6	6	Green				3	2	Yellow
			3	6	Red				2	1	Green
			2	2	Green				3	4	Green
			7	8	Red				1	2	Green
			2	2	Green				6	7	Green
			3	4	Green				4	3	Green
									4	3	Green
			2	2	Green				5	2	Yellow
									5	7	Red

Correct estimate  
 Did better  
 Did worse

# Results Analysis 2018



## Summary of Estimates vs Actual grades for Examination Candidates

	A		B		C		D		No Award	
	est.	res.	est.	res.	est.	res.	est.	res.	est.	res.
Nat. 5	25	30	25	25	32	19	17	13	14	24
Higher	7	18	9	11	16	10	3	5	16	7
Adv. Higher	4	5	0	2	2	2	2	0	3	2

\* National 2018 Statistics taken from here



ADVANCED HIGHER								
Knox Academy   National								
	2018		2017		2016		2015	
A	45%	38%	0%	33%	38%	37%	31%	24%
B	18%	22%	67%	21%	13%	18%	15%	21%
C	18%	16%	0%	18%	25%	16%	31%	22%
D	0%	7%	33%	9%	25%	7%	8%	9%
No Award	18%	18%	0%	19%	0%	21%	15%	24%

HIGHER								
Knox Academy   National								
	2018		2017		2016		2015	
A	35%	34%	29%	29%	8%	29%	23%	21%
B	22%	22%	19%	23%	27%	23%	27%	25%
C	20%	19%	22%	20%	31%	21%	21%	26%
D	10%	8%	9%	8%	13%	9%	16%	11%
No Award	14%	18%	22%	18%	21%	18%	13%	18%



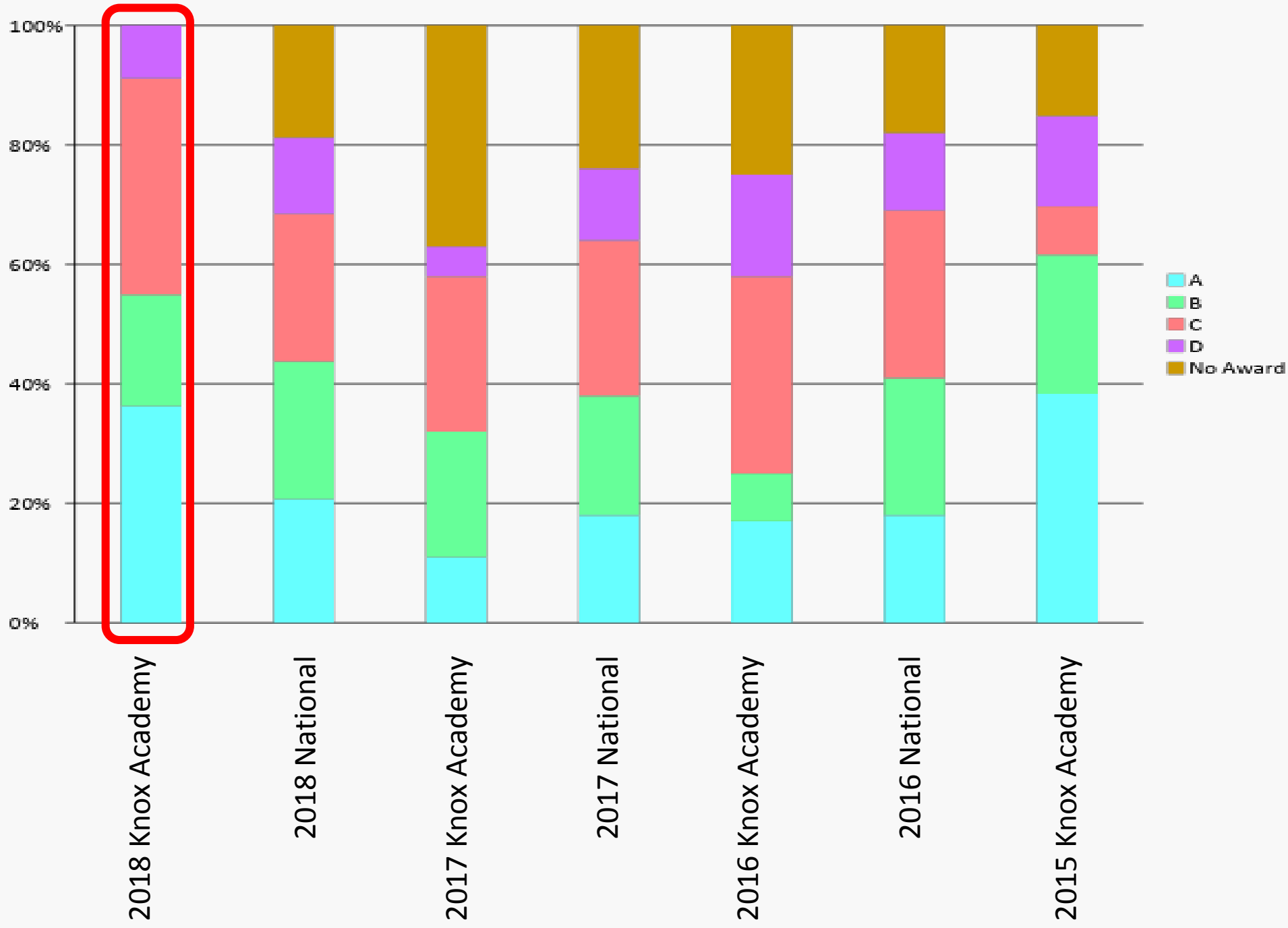
# Results Analysis 2018



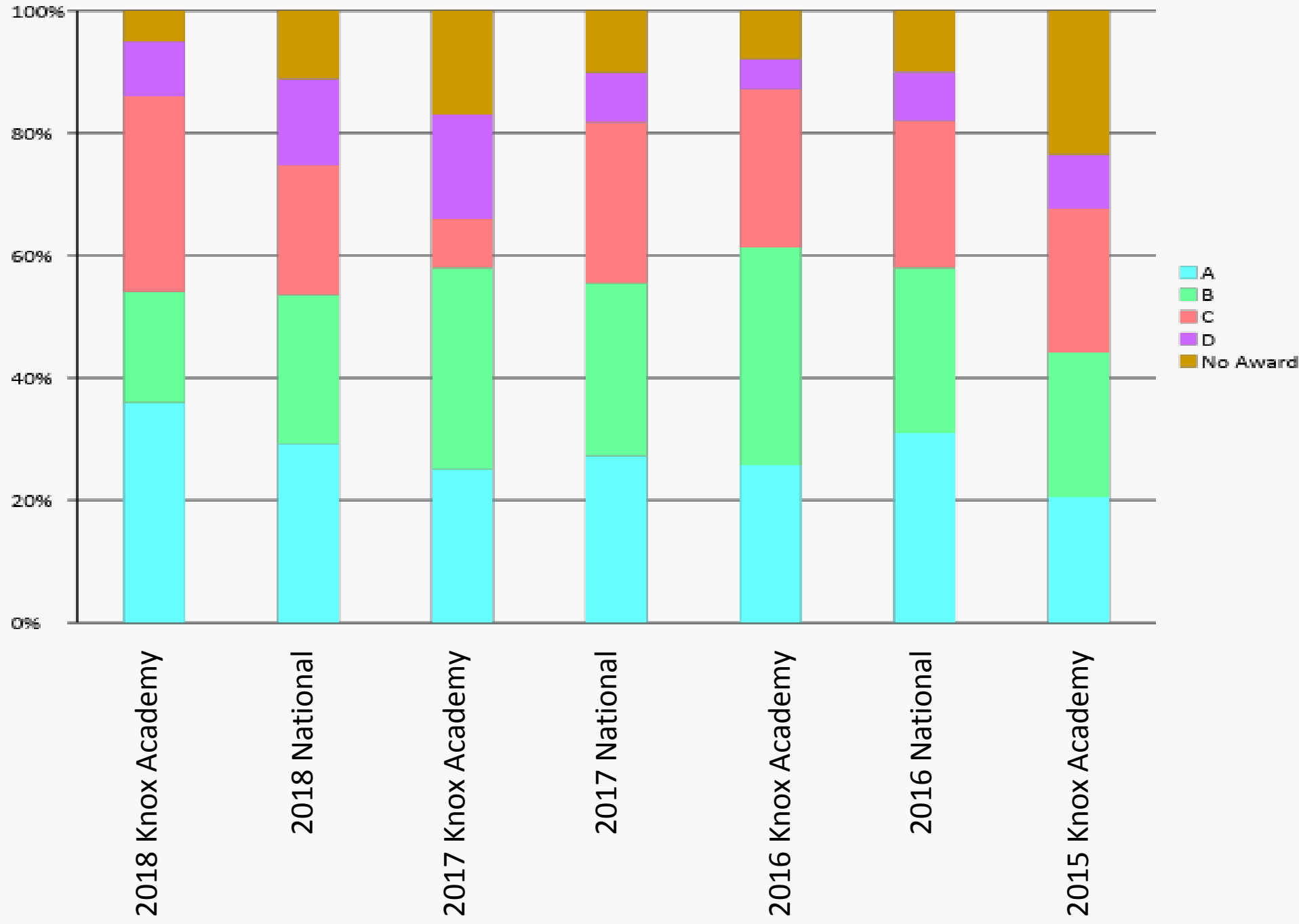
		Mathematics					
		Percentages of Learners Gaining Higher 2018					
National 5 2017	Result	A	B	C	D	No Award	Total
	A	73%	20%	7%	0%	0%	100%
	B	18%	45%	27%	9%	0%	100%
	C	0%	25%	75%	0%	0%	100%
	D						0%
	No Award						0%

		Mathematics					
		Percentage of Learners Gaining Higher 2017					
National 5 2016	Result	A	B	C	D	No Award	Total
	A	49%	26%	15%	4%	6%	100%
	B	6%	17%	28%	15%	34%	100%
	C	2%	8%	20%	14%	57%	100%
	D	2%	5%	18%	10%	65%	100%
	No Award	3%	14%	8%	3%	72%	100%

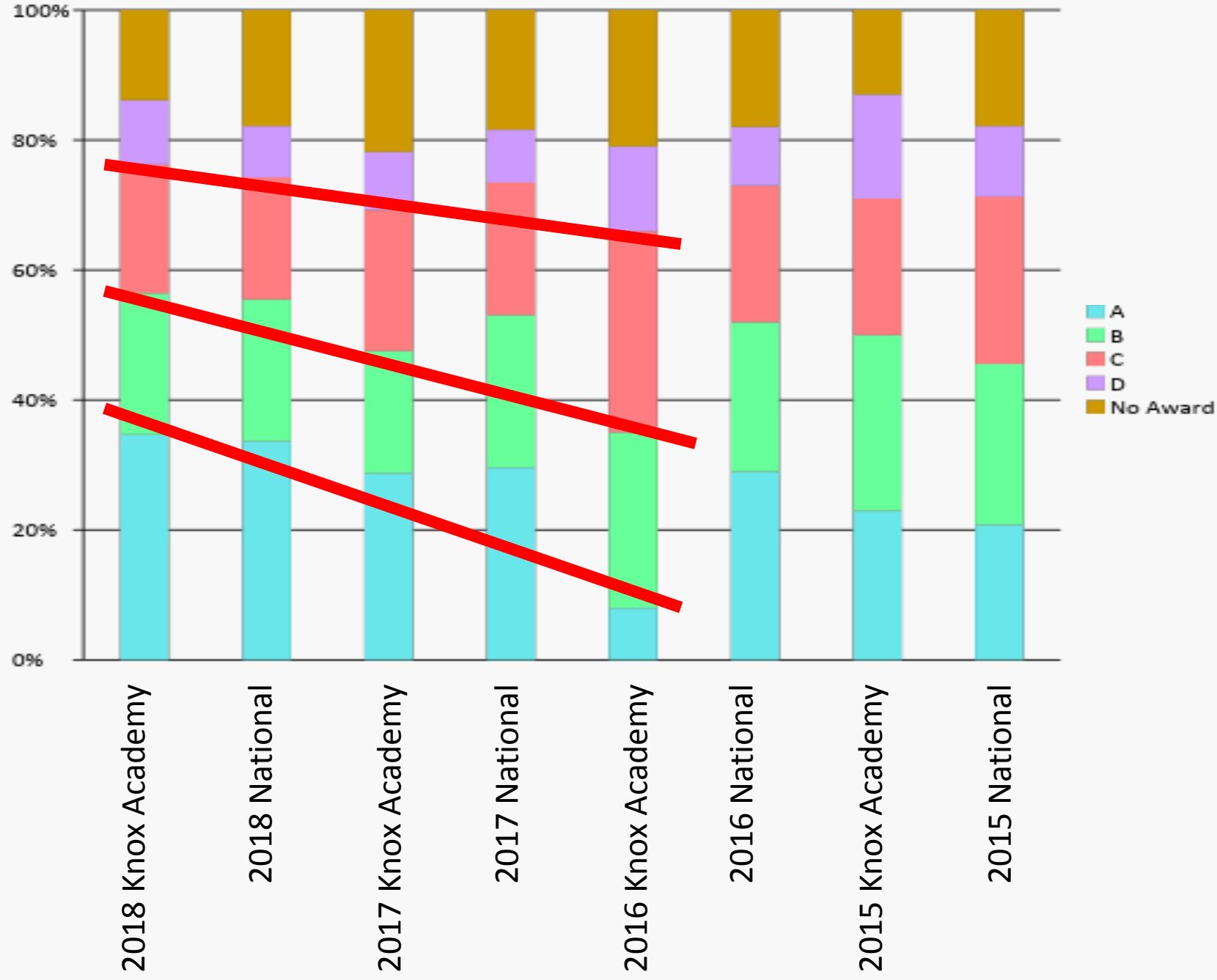
# Higher Computing Science



# National 5 Computing Science



# Higher Mathematics



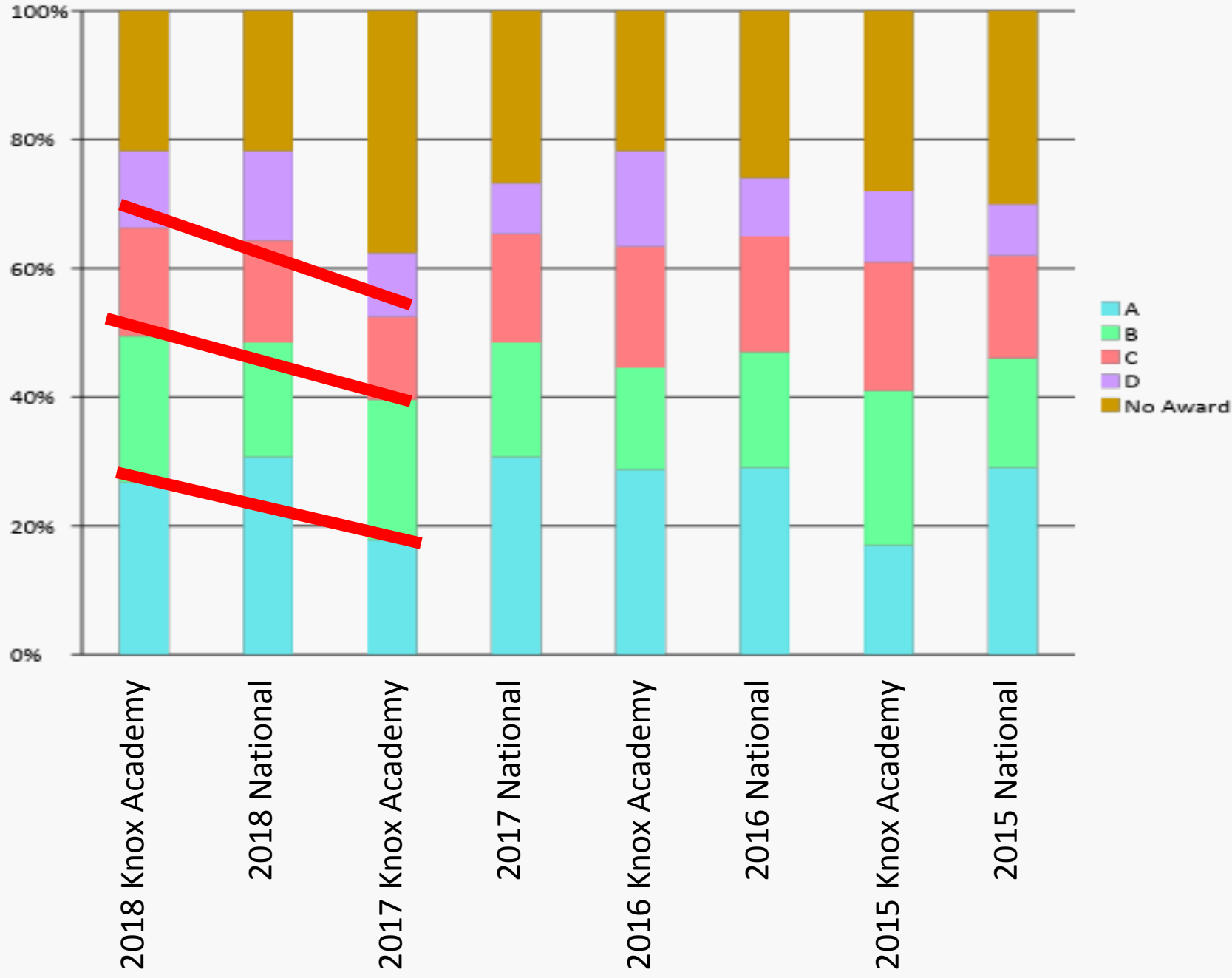


\* Notes at home is beneficial  
as more class time for Q's practice

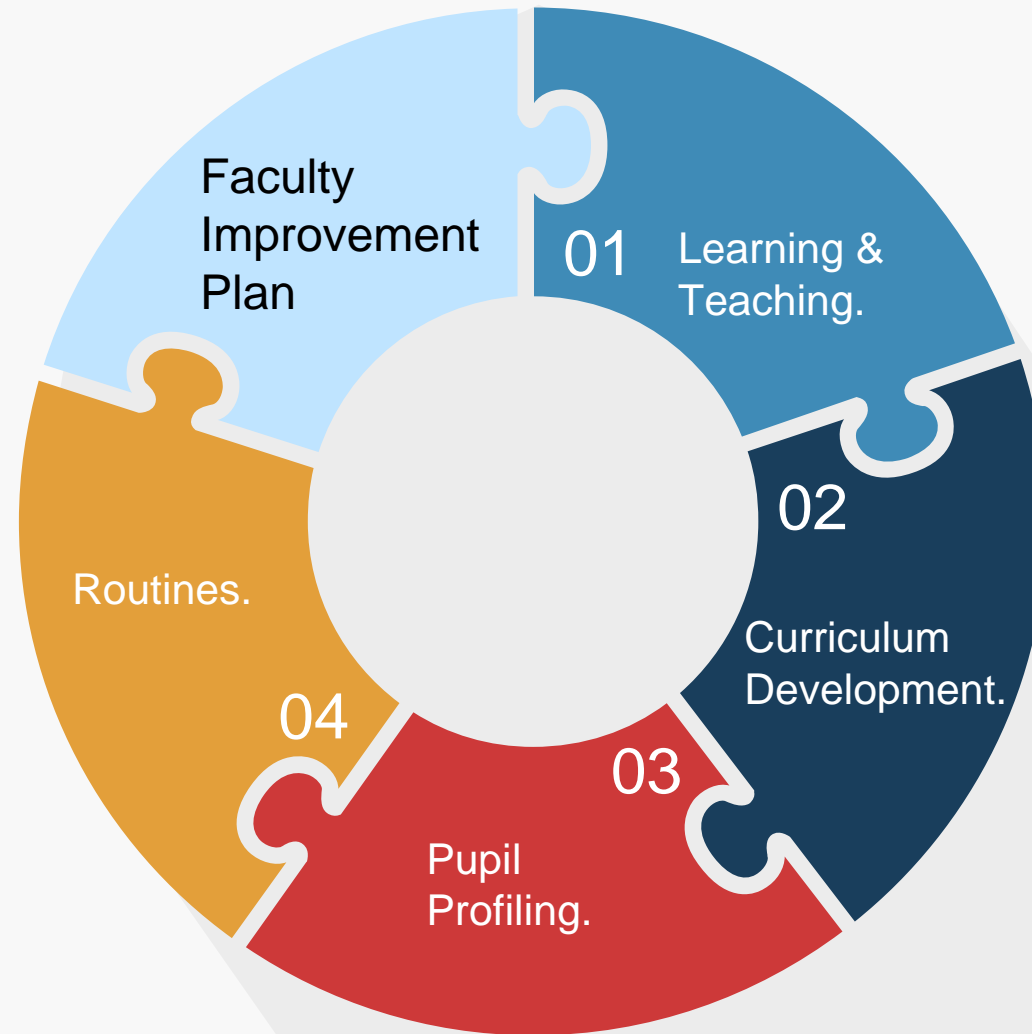
\* The booklets (differentiation, vectors) are  
good place as all notes are in one  
place

wish - for the harder examples in  
the flipped learning booklets  
go over in class quickly before  
we do practice Q's

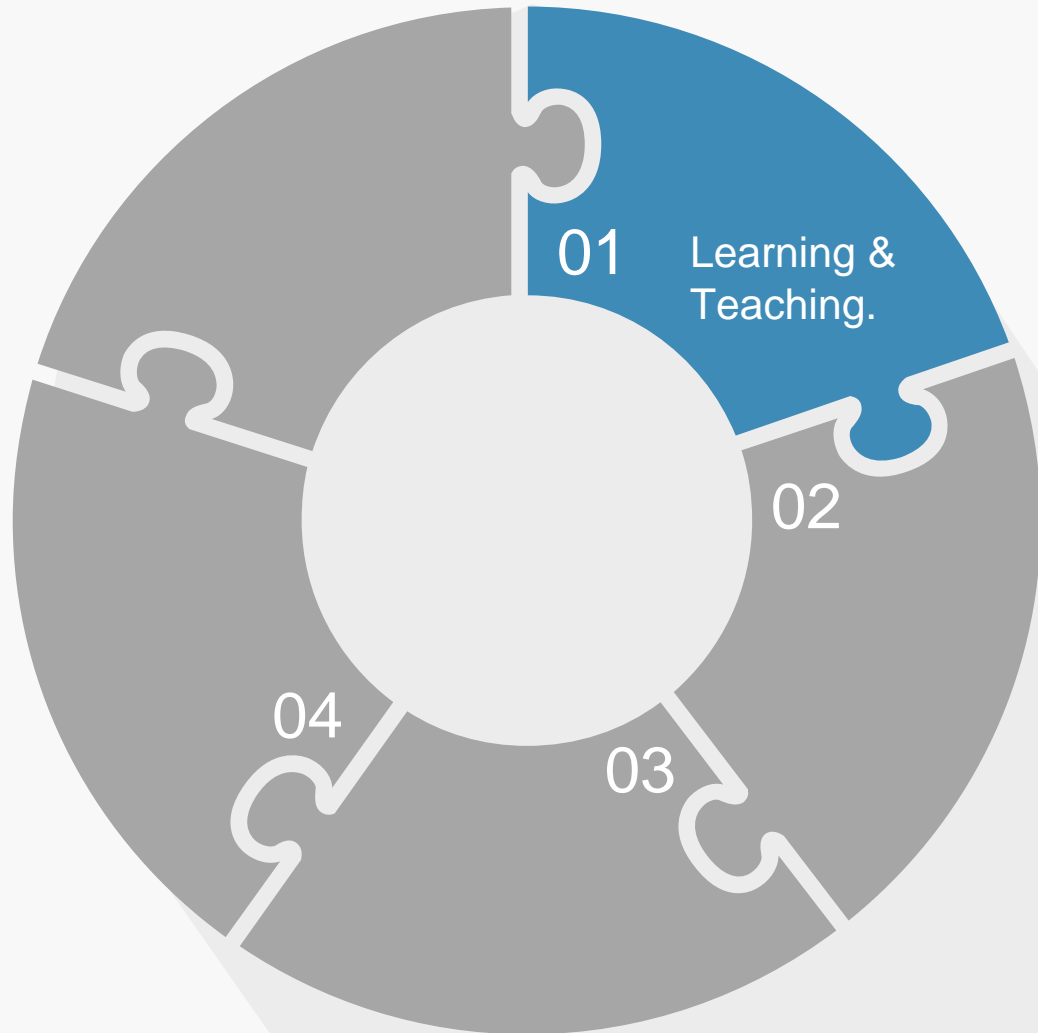
# National 5 Mathematics



# Four Key Priorities



# Priority 1



## Learning & Teaching

Pedagogy/ Teaching Strategies/ sharing resources.

Research/ Evidence informing our practice.

Using assessment information.

# Priority 1: Research

## COGNITIVE LOAD THEORY

Silent  
Teacher



Narration



Your Turn



Intelligent  
Practice



True/false



# Priority 1: Diagnostic Questions

## Integers 1

Knox Academy  
Mathematics Department



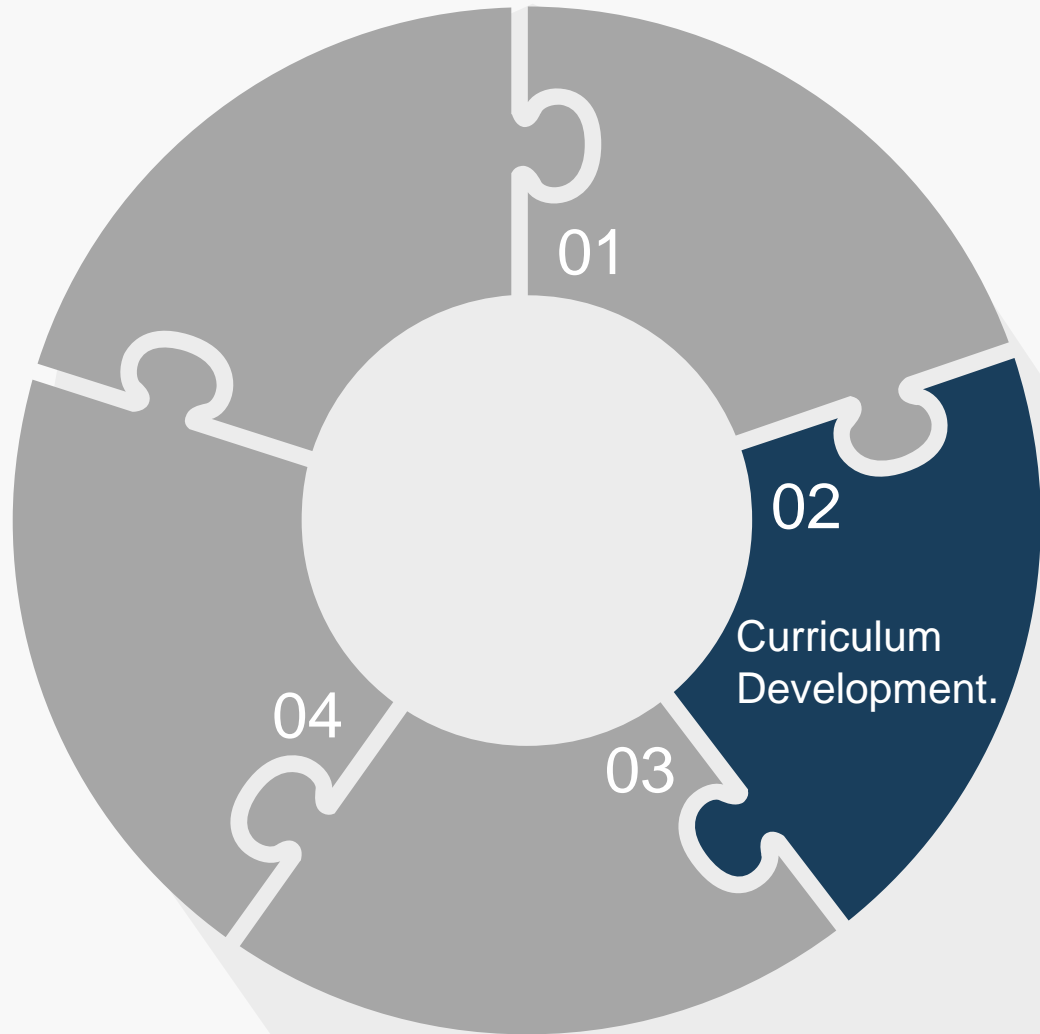
Question 3

BGE Level 2-3

$$(-8) + (-3)$$

- |                     |                    |                    |                   |
|---------------------|--------------------|--------------------|-------------------|
| <p>A</p> <p>-11</p> | <p>B</p> <p>11</p> | <p>C</p> <p>-5</p> | <p>D</p> <p>5</p> |
|---------------------|--------------------|--------------------|-------------------|

# Priority 2

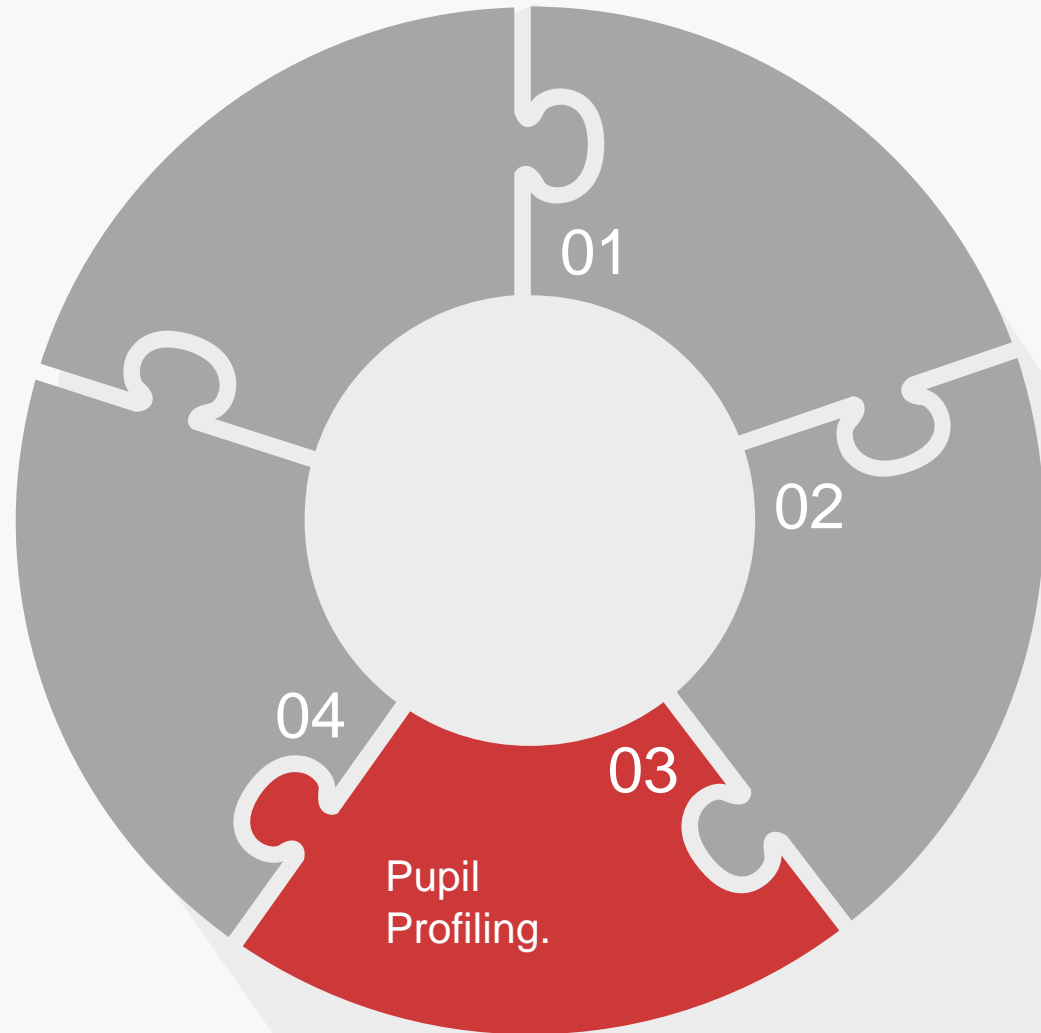


## Curriculum Development

BGE  
Senior Phase  
Pathways

*To what extent does our curriculum raise attainment?*

# Priority 3



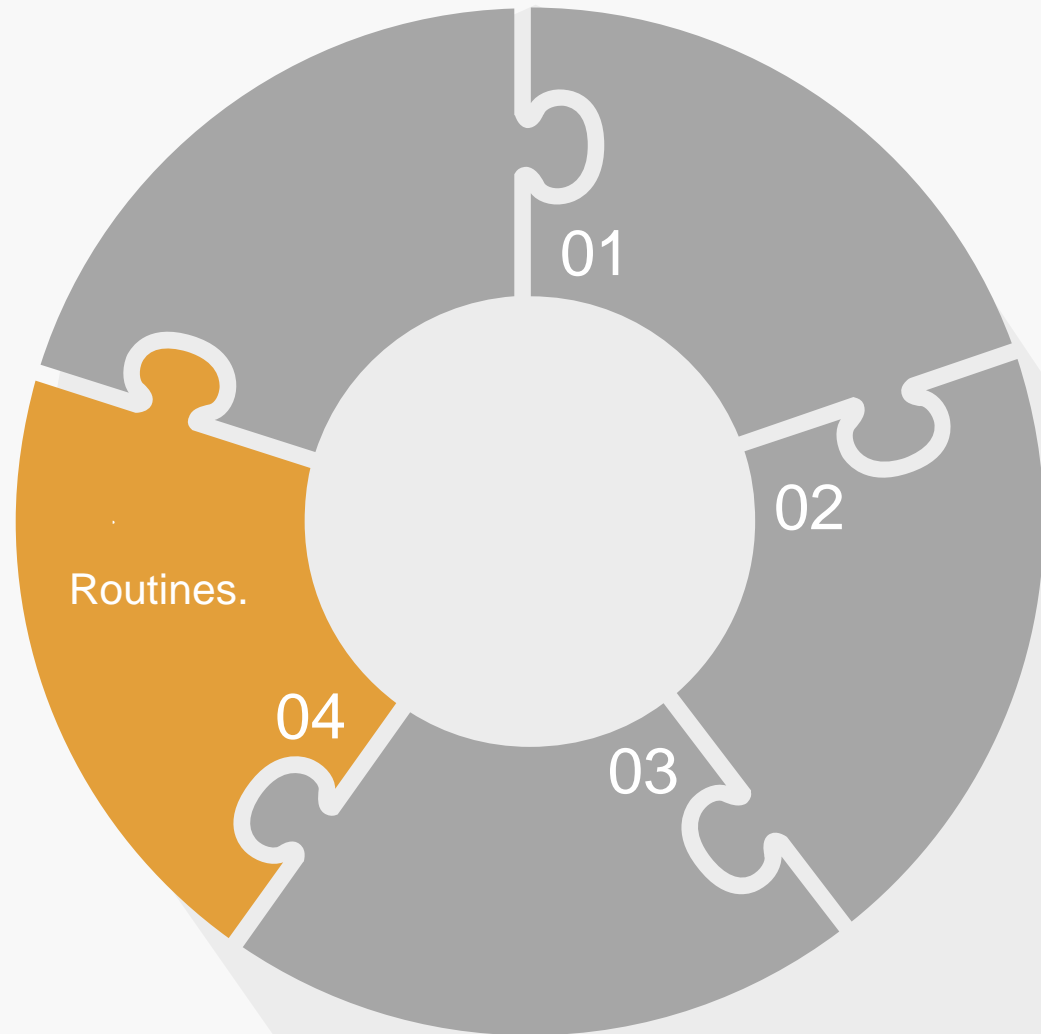
## Pupil Profiling

Recording, Analysing & Tracking Progress  
Curriculum Quizzes  
SNSA

*How effectively do we involve learners and parents in planning and evaluating learning?*



# Priority 4



## Routines

Welcoming every lesson

Knox90


Pencil cases

LI & SC

Formative assessment

Communication with Parents/ Carers

# Priority 4: Learning Intentions and Success Criteria

<b>CfE Level 2</b>	<b>Knox Academy</b> Mathematics Department	
<b>Topic Title</b>		
<b>Learning Intention</b>		
I will be able to ... explain...		
<b>Success Criteria</b>		
I can...		
I can...		



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