



STUDY SKILLS AND EFFECTIVE HABITS

PRINCIPAL TEACHER OF SCIENCE (ACTING)

PREVIOUSLY – PT RAISING ATTAINMENT

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TONIGHT'S SESSION

- Stepping up a gear as we enter a new year group
- Online sessions for study skills+
- Science of Learning
- Supported Study
- Raising Attainment Resources

STEPPING UP TO S4

- **At least** 2 hours per subject per week
- Success in S3 exams is no guarantee of success in S4.

N5 Biology Case Study, 2022-23 cohort:

- 80 pupils in the cohort
- 84% passed the S3 exam (16% failed)
- 27% became N4
- 12% sat the N5 exam but did not pass
- So 39% of the cohort did not achieve N5

What did the successful pupils do?



STEP AND MATCH THE CHALLENGE (N5→HIGHER)

- **Progression Tables** are data made by the SQA which show progression from N4 to N5; N5 to Higher; Higher to Adv Higher within a subject.
- E.g. What do pupils that get a B at N5 English go on to get at Higher?

		English					
		Percentage of Learners Gaining Higher 2019					
National 5 2018	Result	A	B	C	D	No Award	Total
	A	46%	32%	17%	5%	1%	100%
	B	7%	24%	35%	26%	7%	100%
	C	1%	8%	25%	38%	28%	100%
	D	1%	4%	14%	35%	47%	100%

- 31% (7% + 24%) go on to get a B or better at Higher, 69% do worse...
- Success at N5 is no guarantee of success at Higher. Higher is considerably harder.
- How did the 31% who matched or bettered their N5 result do it?

N4 TO N5 IS AN EVEN BIGGER CHALLENGE

National 4 2018 to National 5 2019

Qualification	Percentage of Learners Gaining National 5 2019					Total Learners Progressing*
	A	B	C	D	No Award	
Applications of Mathematics	2%	6%	19%	29%	44%	299
Biology	1%	7%	19%	34%	39%	1,529
Chemistry	2%	8%	22%	37%	30%	509
English	6%	24%	32%	24%	13%	4,386
English for Speakers of Other Languages	8%	21%	33%	30%	8%	153
Geography	2%	11%	23%	27%	37%	391
Graphic Communication	0%	8%	26%	37%	29%	146
History	6%	15%	27%	24%	27%	620
Mathematics	4%	11%	18%	24%	43%	6,906
Modern Studies	4%	12%	22%	23%	39%	485
Physics	1%	9%	21%	30%	39%	662

HIGHER TO ADV HIGHER

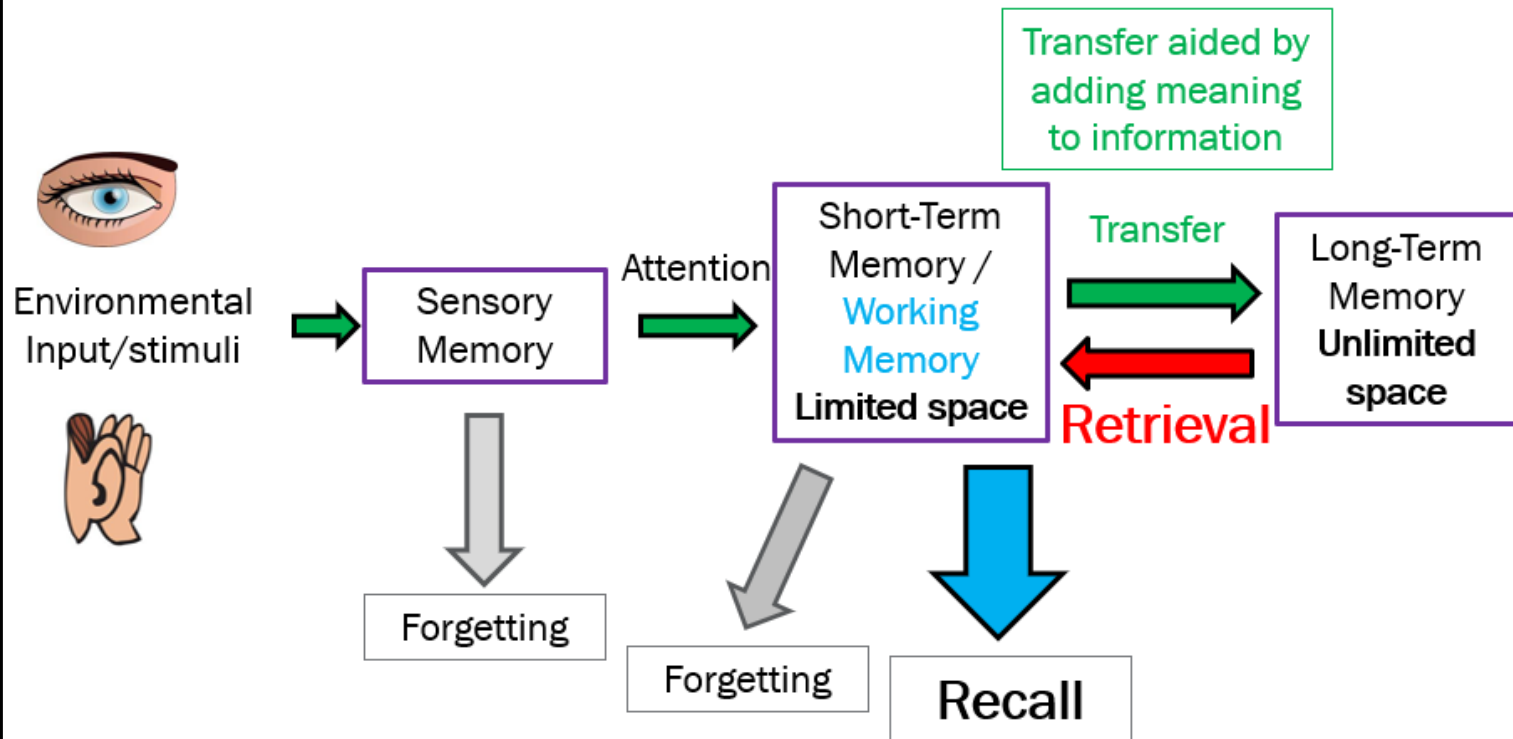
		Human Biology to Biology					
		Percentage of Learners Gaining Advanced Higher 2019					
Higher 2018	Result	A	B	C	D	No Award	Total
	A	30%	33%	24%	7%	6%	100%
	B	3%	14%	32%	23%	28%	100%
	C	0%	5%	17%	21%	57%	100%
	D	-	-	-	-	-	-
	No Award	-	-	-	-	-	-
Total Learners Progressing		917					

		Spanish					
		Percentage of Learners Gaining Advanced Higher 2019					
Higher 2018	Result	A	B	C	D	No Award	Total
	A	41%	21%	21%	7%	10%	100%
	B	2%	6%	36%	19%	38%	100%
	C	-	-	-	-	-	-
	D	-	-	-	-	-	-
	No Award	-	-	-	-	-	-
Total Learners Progressing		452					

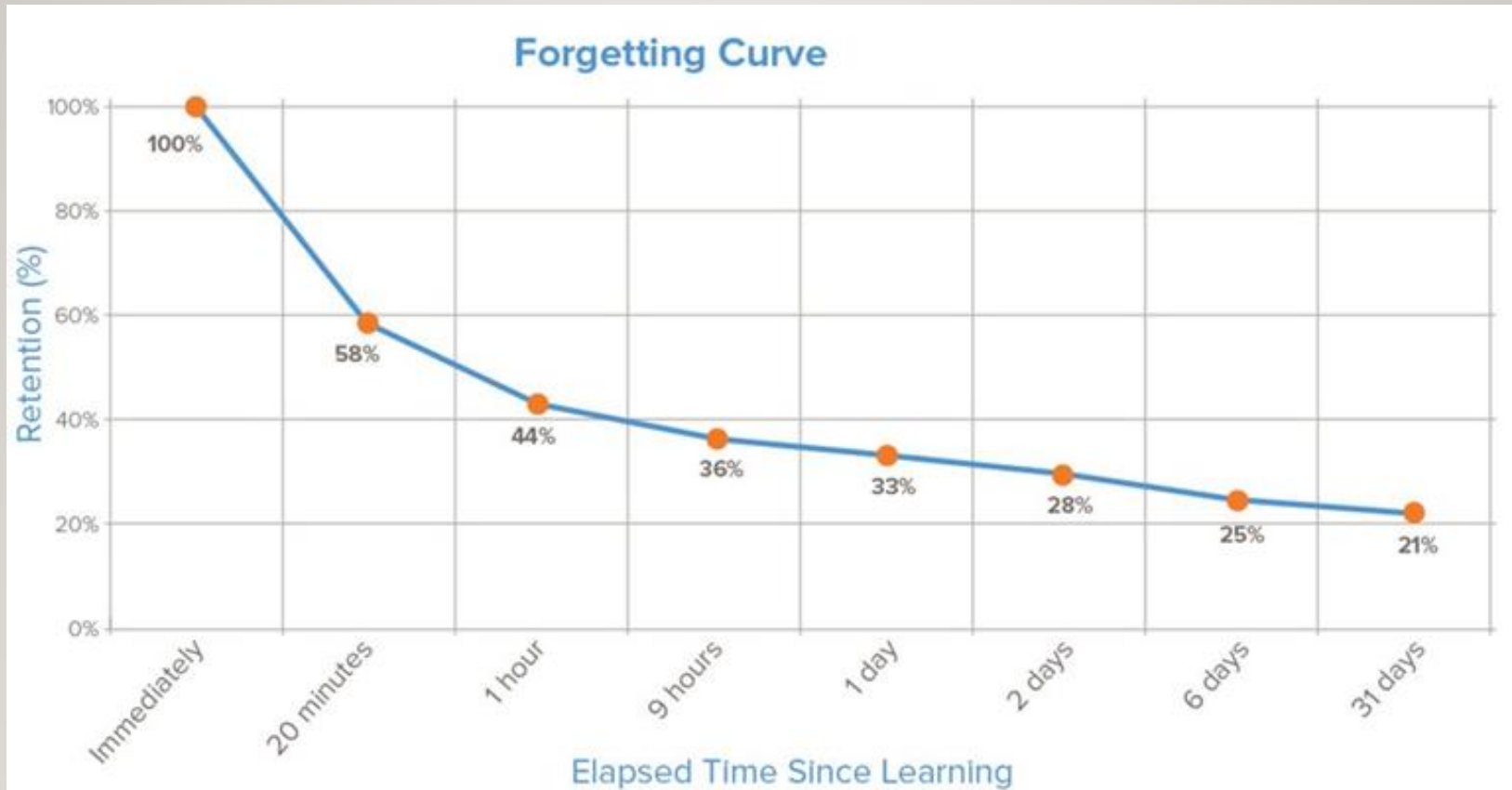
SCIENCE OF LEARNING

- Multi-store model of memory
- Fighting forgetting by spacing reminders
- Top 3 retrieval strategies to close gaps in knowledge

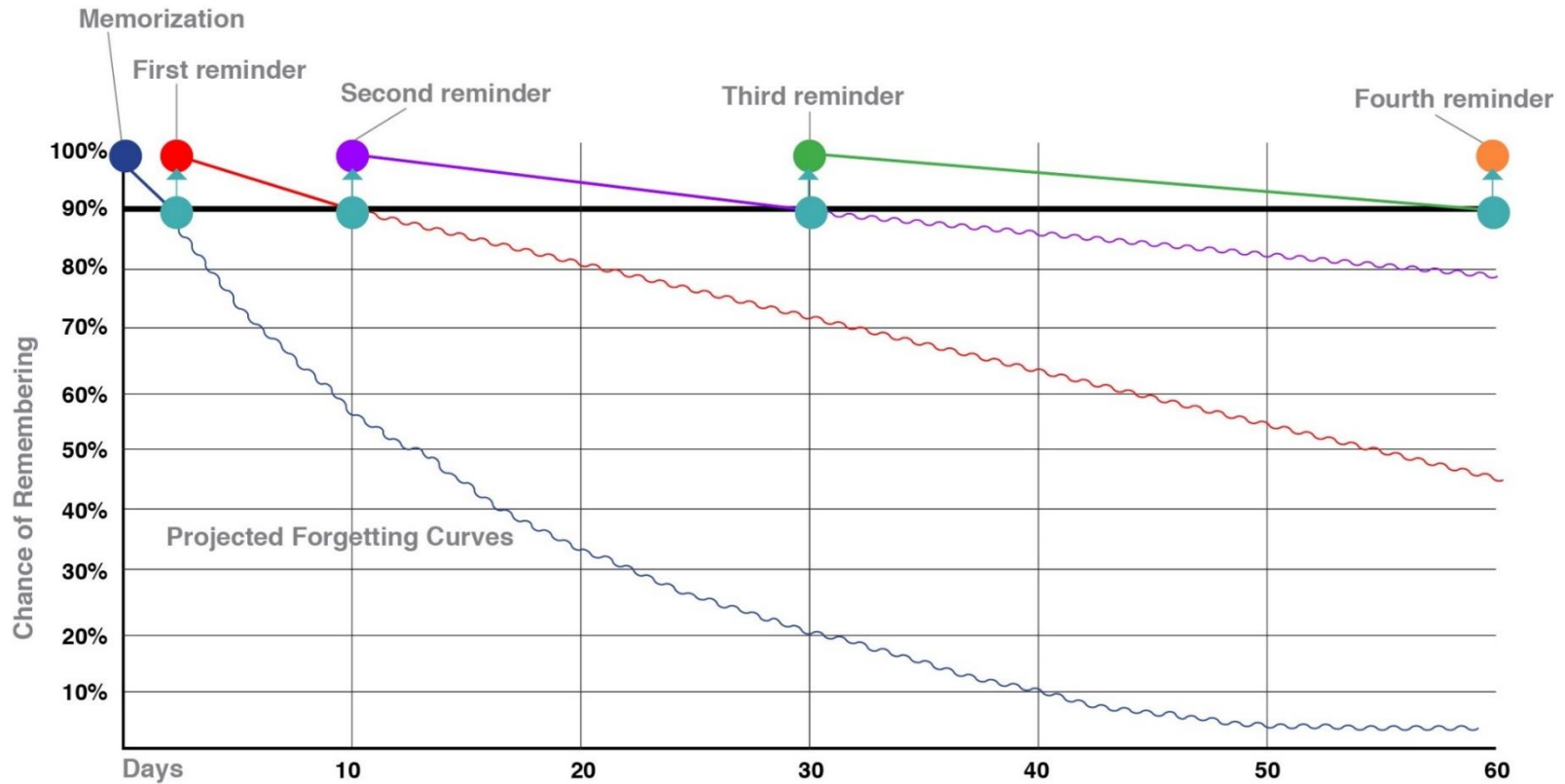
Model of memory



FORGETTING



FIGHTING AGAINST FORGETTING



WHAT IS RETRIEVAL PRACTICE?

- Quizzing - by going into your long term memory to **retrieve** information and bringing it into your working memory to answer questions/problem solve/perform.
- It is vital that quizzing is done **without notes**.
- This makes studying more stimulating, more effective but more challenging.
- Challenge is part of learning.

TOP 3 RETRIEVAL PRACTICE STRATEGIES

- Do SQA past paper questions
- Flashcards
- Brain-dumps A.K.A. Free Recall

ONLINE STUDY SKILLS SESSIONS FOR PARENTS AND PUPILS

- Thursday 3rd October, 6:30-7pm
- Meet online on Teams

SUPPORTED STUDY PROGRAMME

- Extremely important intervention!
- Attendance is monitored
- Pupils must explain to their class teacher if they cannot attend supported study, attending is expected.

RESOURCES

- **Where?** You can find these resources on the 'STA Pupil Site' on OneDrive.
- **What resources?**

Template study plan

PSE lessons

PowerPoints from study skills sessions

Supported Study Timetables (when available)

