Subject	Year	Term
Biology	12	2

Topic

Mass Transport in Plants

Content (Intent)

Prior Learning (Topic) B2a Organisation (year 9)

Structure and function of xylem and phloem tissue.
Transpiration and factors affecting its rate.
Cohesion-tension theory of water transport.
Mass flow hypothesis for the mechanism of translocation
Evidence for and against mass flow hypothesis.

Future Learning (Topic) Further study at university/degree level

How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)
Practical work Use of potometer to investigate factors affecting rate of transpiration. Written Class notes Past papers questions in class Past paper questions in homeworks	-3 x standard homeworks (Grade given. Written feedback. Response expected.)

How can parents help at home?

Look at the topic specific resources on the VLE
Use appropriate youtube channels: Miss Estruch AQA A level Biology
Use Seneca and Physics and Maths Tutor websites for content and retrieval practice
Encourage students to use the text book provided by school
Take an interest! Ask your children what they have learnt and be curious about their learning.

Helpful further reading/discussion

Reading	**Vocabulary Lists**	**Careers Links**
New Scientist	Xylem	Biochemistry
Biological Science Review Magazine (available on the VLE)	Phloem	Biomedical science
	Transpiration	Biological sciences
	Cohesion-tension	Medicine
The Biologist Magazine	Mass flow hypothesis	Veterinary medicine
Royal Society of Biology	Translocation	
Royal Society of Biology blog	Sieve tube elements	

	Osmosis Ringing Tracer Source Sink Correlation Causation	Bioveterinary science Nursing Midwifery Healthcare science Zoology Radiology