Gas exchange

acetic acidamino acidabscissic acidascorbic acid

Withdrawing potassium ions from guard cells:

the water potential is exactly zero

closes the stoma reduces water potential has no effect on the stoma

opens the stoma

turbulent

1.

2.

3.

	 the water potential is unaltered the water potential decreases the water potential increases 	
4.	Water flows in and out of the guard cells by the process of:	
	 diffusion electrolysis osmosis hydrolysis 	
5.	Gases flow in and out of leaves by the process of:	
	 diffusion electrolysis osmosis hydrolysis 	
6.	The ions transported into guard cells to close the stomata are:	
	 K⁺ Cl⁻ OH⁻ Na⁺ 	
7.	Stomata close when guard cells:	
	 contain no water are not turgid contain no potassium ions are turgid 	
8.	Stomata are situated in the gaps between:	
	 xylem cells phloem cells palisade cells guard cells 	
9.	The inner walls of stomata are held rigid by:	
	 sclerenchyma palisade mesophylls spongy mesophylls cellulose microfibrils 	
10.	When guard cells fill up with water they are said to become:	
	 turgid traumatized turbid 	

The plant hormone that triggers potassium ion withdrawal from guard cells

The effect of adding potassium ions on the water potential in guard cells is: