



ASSESSMENT and  
QUALIFICATIONS  
ALLIANCE

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Mark scheme  
March 2003

# GCSE

**Science (Modular) Double Award  
and Biology (Modular)**

## Module 02

**Maintenance of Life: Foundation Tier**

Question	Key
One	1 – kidney 2 – bladder 3 – lung 4 – brain
Two	1 – contains light receptors 2 – contains receptors sensitive to chemicals 3 – contains temperature receptors 4 – contains movement receptors
Three	1 – releases oxygen in the light 2 – strengthens the cell 3 – controls the activities of the cell 4 – contains cell sap
Four	1 – spinal cord 2 – sensory neurone 3 – receptor 4 – muscle
Five	1 – a waxy material 2 – carries sugar away from the leaf 3 – controls water loss from the leaf 4 – where most glucose is produced
Six	carbon dioxide urea
Seven	roots grow in the direction of the force of gravity shoots grow towards light
Eight	8.1 – D, 8.2 – C, 8.3 – D, 8.4 – C
Nine	9.1 – C, 9.2 – D, 9.3 – D, 9.4 – A
Ten	10.1 – D, 10.2 – D, 10.3 – A, 10.4 – C

**Maintenance of Life: Higher Tier**

<b>Question</b>	<b>Key</b>
One	1 – a waxy material 2 – carries sugar away from the leaf 3 – controls water loss from the leaf 4 – where most glucose is produce
Two	1 – focus 2 – relax 3 – tighten 4 – change shape
Three	roots grow in the direction of the force of gravity shoots grow towards light
Four	dissolved ions sugars
Five	5.1 – D, 5.2 – C, 5.3 – D, 5.4 – C
Six	6.1 – C, 6.2 – D, 6.3 – D, 6.4 – A
Seven	7.1 – D, 7.2 – D, 7.3 – A, 7.4 – C
Eight	8.1 – C, 8.2 – B, 8.3 – D, 8.4 – D
Nine	9.1 – A, 9.2 – B, 9.3 – D, 9.4 – A
Ten	10.1 – C, 10.2 – B, 10.3, – C, 10.4 – D