General Biology Year 11

Unit 2 – Solving problems to survive

A picture containing game

Description automatically generatedTask 7: Extended Response – Transport systems in organisms

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** | **Teacher:** | **Date:** | **Score:**  / **26** |

**Conditions**

Time for the task:

* Part 1: Two lessons to research topic and complete notes at home.
* Part 2: One lesson for in-class validation – extended response style question.

**PART 2: Extended Response Questions**

1. Plants have various transport structures for water and minerals. Describe how a plant can transport water and minerals from its roots up its stem.

(4 marks)

1. Draw a labelled diagram for how sugars/carbohydrates are transported through a plant.

(4 marks)

1. Leaves are the site of transpiration and gas exchange in plants.
2. What is transpiration and how does a leaf allow this process to occur?

(3 marks)

1. What is gas exchange? What are the gases involved for a plant during this process?

(2 marks)

1. There are two main types of animal circulatory systems. Compare and contrast the two types of circulatory systems, make sure to include structures and substances.

(6 marks)

1. Most mammals have a dual loop circulatory system, what is meant by this term? Describe why this system is useful.

(3 marks)

1. Draw a labelled diagram of a mammalian heart in the space below.

(4 marks)

**End of Assessment**