

High Tunstall College of Science Curriculum Intent

Subject: Biology Year: 11

Thread 3 – Bioenergetics



| | Biology Thread 3 | Progress | | |
|---------------|--|----------|---|---|
| Topic | Key ideas | R | A | G |
| Bioenergetics | I can list factors which effect the rate of Photosynthesis | | | |
| | I can describe factors which effect the rate of Photosynthesis | | | |
| | I can Investigate how light intensity affects the rate of Photosynthesis | | | |
| | I can explain how plants use glucose | | | |
| | I can describe respiration and metabolism. | | | |

| Lesson | Learning Focus | Assessment | Key Words |
|--------|--|--|------------|
| 1 | What affects the speed of Photosynthesis? | Describe factors which effect the rate of Photosynthesis | Rate |
| 2 | How can we investigate the effect of different factors on the speed of Photosynthesis? | Investigate the effect of light intensity on photosynthesis and explain the inverse law. | Intensity |
| 3 | How do plants use glucose? | Explain the different ways in which plants use glucose. | Glucose |
| 4 | What is Metabolism? | Describe respiration and metabolism, and explain factors which effect it. | Metabolism |
| 5 | Review prior learning | Identify areas of strength and areas for improvement. | |