**Teacher Notes**

* **Pupils act out the parts**
* **Encourage to line up in the photosynthesis equation as part of the dramatic finish**
* **KS4 or medium to higher-ability pupils will be able to edit/add extra information about photosynthesis – possibly more characters**
* **One group once created a ‘Scene II’ where they went on to do respiration and plant transport too**
* **Smaller groups will have to act out more than one part per pupil**
* **Recommended that document is laminated for repeated use**
* **Laminated name tags can be used to help lower ability pupils ‘visualise’ the equation better at the conclusion**

**Photosynthesis – the story!!!!**

Narrator: it is a normal day in Biologyland, and Mr Plant is feeling tired. Mr Plant has been working very hard and has used all of his energy!

Mr. Plant Oh dear, I am very hungry; I have used all of my reserve stores of starch. What on earth could I do – the starch store is closed?

Narrator: Luckily, Mr Plant had some useful friends to help him out!

Sally Sunlight: Hello!!!I am Sally Sunlight!!I have come from…..yes that’s right – the Sun! I cannot help you on my own Mr Plant, you will not photosynthesise with just my light.

Narrator: Luckily, help was on hand…………..

CO2: Hi There!! I am CO2 – my real name is carbon dioxide! I can help ya Mr Plant! I am from the air, yeah, and get confused into the little holes in the leaf called stomata.

Sally Sunlight: No, no CO2 – you get *diffused*, not confused! Silly boy!

CO2: oh yeah, you are bright Sal! Sorry!

Narrator: Mr Plant was entirely excited that CO2 was here to help!

Charlie Chlorophyll: Hello! My name is Charlie, Charlie Chlorophyll – you will need me for this photosynthesis thing that you are doing! I live in Mr Plants’ leaves! I am a green color and here to help!

Narrator: This was all going awfully well, but still Mr Plant could not feed himself yet….what does he need? Can anybody tell me??

CLASS: WATER!!!!!!

Wendy Water: Hi everybody! My name is Wendy Water!! I have just come from the roots! Sorry I took so long!! Are we ready? We have Sally Sunlight, CO2, Charlie Chlorophyll and me!! Let’s go and photosynthesize! Mr Plant here we come!

Mr. Plant: Woah!! Hold on! I am feeling a little bit hot – my temperature is 45 degrees Celsius! I need to cool down otherwise I will not photosynthesise properly!

Narrator: Luckily, a breeze cooled Mr Plant down and he was ready! Wendy, Sally, Charlie and CO2 all combined and photosynthesis happened!

Mr. Plant: Wow! That is much better – I feel energised and ready for action! I just have to release a couple of products!

Gary Glucose: Hello folks! I am Gary Glucose and I am a product of photosynthesis. I can be used for energy, but first I am going to change into starch as I will be stored for longer! Cheerio!!

Narrator: So off went Gary Glucose to change into starch and get himself stored up.

Omar Oxygen: Hi, I am Omar Oxygen but I won’t be stopping for long, Mr Plant doesn’t need me – I am being released back into the atmosphere! BYEEEEEEE!!

Narrator: And so Mr Plant was happily fed, and was able to go back to work!

Produced by Matthew Broderick