

## Photosynthesis Oral Assessment

1. How many steps are there to photosynthesis?
2. What is step 1 called, show me on a diagram.
3. What are the 2 products of step 1?
4. What is step 2 called, show me on a diagram.
5. Explain how light initiates the light reaction at PSII? In other words what does the light do to the electrons ( $e^-$ ) at PSII?
6. Where do the electrons head? Show me.
7. What do the electrons accomplish at the cytochrome complex? Show me.
8. What happens to the electrons at PSI?
9. Where do the electrons end up at the end of the ETS? Show me.
10. Back at PSII, where do the electrons come from to replace the electrons that were lost to the ETS? Show me.
11. What happens to the O from water?
12. What happens to the  $H^+$  (protons) from water?
13. What is produced at ATPsynthase?
14. Where do the ATP and NADPH head next.
15. What is the most abundant enzyme on earth and where is it? Show me.
16. How many carbon atoms must be waiting at the carbon fixation cycle for the arrival of the 3  $CO_2$ ?
17. What is produced in step 2?
18. How many times must Step 2 turn in order to produce 1 glucose?
19. Where do the carbon atoms come from to make the  $G_3P$ ?
20. Where do the ADP &  $NADP^+$  head after they “do their work” at stage 2?

## **Cell Respiration Oral Assessment**

1. How many steps are there to cell respiration?
2. What is step 1 called and where does it occur? Show me.
3. Where does the transition take place? Show me.
4. What is step 2 called and where does it take place? Show me.
5. What is step 3 called and where does it take place? Show me.
6. What is the NET GAIN of step 1?
7. What is the NET GAIN of transition?
8. How many times does step 2 turn per glucose?
9. What is the NET GAIN of step 2?
10. Where do all the taxis that are produced in steps 1 and 2 and transition head next?
11. What flows down the ETS?
12. What molecule is the final electron acceptor along the ETS?
13. What is pumped across the inner membrane along the ETS?
14. Where do the protons build up pressure (high concentration)?
15. What is produced at the ATP Synthase?
16. How many ATP are made IN TOTAL for 1 glucose molecule.