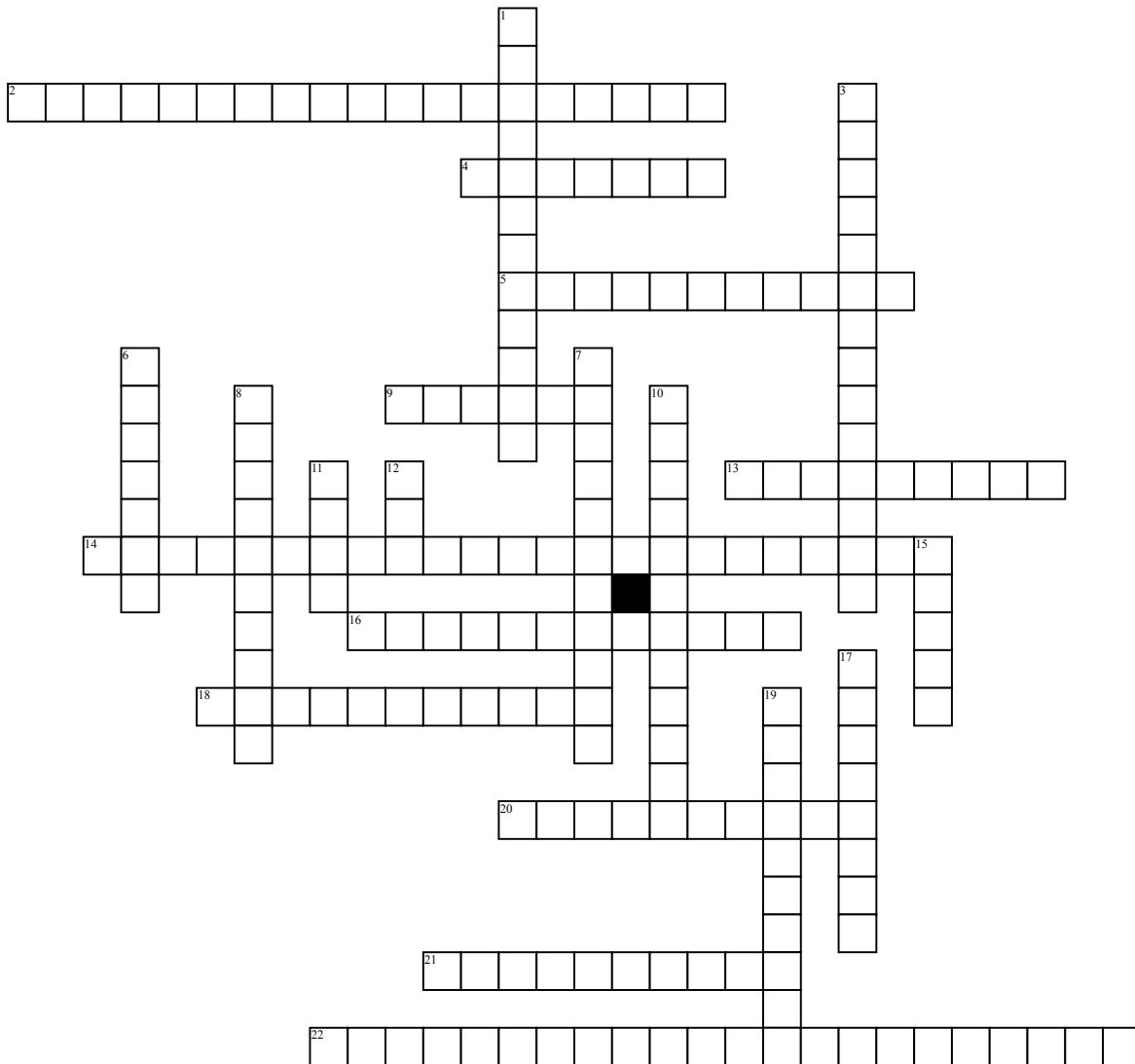


Name: _____

Unit 3 Performance Task



Across

2. Glycolysis, Krebs Cycle, and electron transport chain make process called?
4. Requires oxygen.
5. Protein that spans the membrane.
9. Calvin Cycle takes place here.
13. "Not in air", Does not require oxygen.
14. Reactions that require light.
16. Proteins make pigment clusters known as?
18. Plants principal pigment.
20. Named after Hans Krebs, second stage of cellular respiration.

21. Saclike photosynthetic membranes in chloroplasts.

22. Uses high-energy electrons from the Krebs Cycle to covert ADP into ATP.

Down

1. Releases energy from food molecules by producing ATP in the absence of oxygen.
3. Plants use energy from sun to convert H₂O and CO₂ into carbohydrates and oxygen.
6. Amount of energy needed to raise the temperature of 1 gram of water 1 degree celsius.
7. Uses ATP and NADPH from light-dependent reactions to produce high-energy sugars.

8. Organisms that make their own food.

10. Organisms that cannot use the sun's energy directly.

11. Reaction of glycolysis that removes 4 electrons and passes them to an electron carrier called?

12. Principal chemical compound that cells use to store and release energy.

15. Electron carrier molecule that holds 2 high-energy electrons and a hydrogen ion.

17. Plants light-absorbing molecules.

19. Process that releases only a small amount of energy.