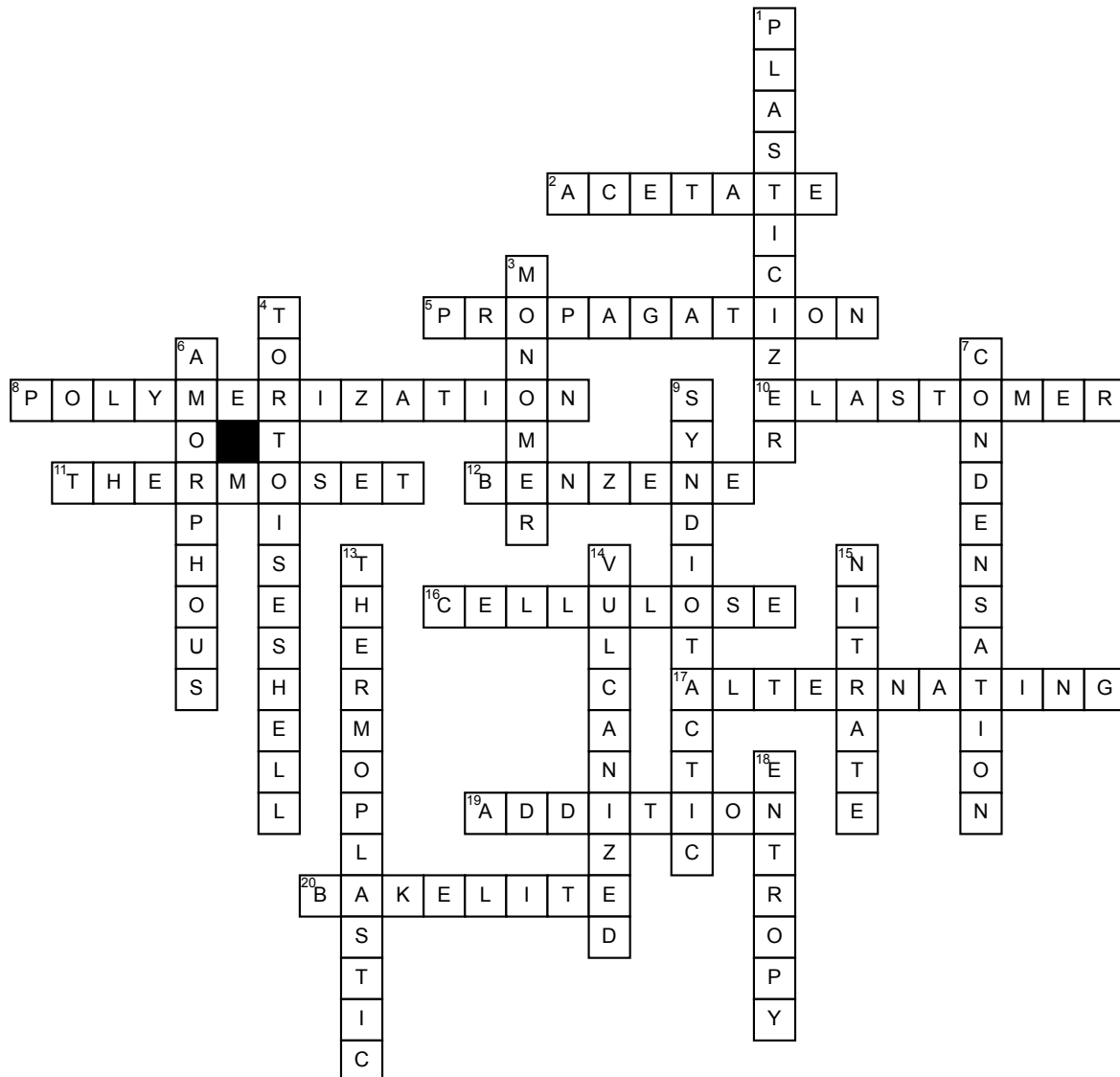


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Plastics and Polymers



## Across

2. Component of Safety  
Celluloid

5. The process of growing a  
polymer chain

8. The process of forming a  
large molecule by linking together  
smaller subunits

10. A polymer that springs back  
after being twisted or pulled

11. Type of polymer that cannot  
be reformed or remolded after  
initial heat-forming

12. A six carbon aromatic  
compound with alternating C=C  
double bonds

16. Natural component of first  
synthesized plastics

17. Type of polymer formed from  
two or more repeating monomers

19. The combination of  
molecules by sharing electrons  
with an adjacent molecule

20. First plastic made from fully  
synthetic materials

## Down

1. Additive that gives plastics  
flexibility and durability

3. One of the small repeating  
units of a polymer

4. Type of natural thermoplastic

6. Without a clearly defined  
form or shape

7. The combination of two  
molecules through the loss of a  
smaller molecule such as H<sub>2</sub>O

9. Polystyrene produced when  
the phenol groups alternate on its  
backbone chain

13. Type of polymer that is  
remoldable when heated

14. Type of rubber formed by  
heating with sulfur

15. Component of first the  
synthesized plastic

18. The disorder of molecules