

## Episode 22 - The Age of Polymers

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

1. What determines the name for an age (stone age, bronze age, etc.)?
2. What are some examples of polymers in nature?
3. What is the common starting material for most manmade polymers?
4. In fractional distillation \_\_\_\_\_ molecules travel to the top of the fractionating tower  
\_\_\_\_\_ molecules collect at the bottom.
5. Arrange the following fractions in order from lightest to heaviest: asphalt, jet fuel, lubricating oil, gasoline, diesel fuel
6. What happens during catalytic cracking?
7. What is meant by a chain reaction?
8. What polymer is produced in the largest quantities?
9. Describe the differences between high and low density polyethylene.
10. What was the key to the design of PETE soft drink bottles?
11. Why are polymers so widely used in the automobile and aircraft industries?