**Revision Sheet Polymers – Plastics & Proteins Gee – thanks, Miss!**

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| 1. | Addition polymers | How?What must be present in monomer? |
| 2. | HDPE –vs- LDPE | Two questions on this comparison (one in IP). Know uses, properties, and how STRUCTURE explains properties |
| 3. | Glucose/starch/celluslose | Type of rn? Join?  |
| 4. | Thermosetting –vs- thermoplastic | What’s the difference? How does this affect their uses? |
| 5. | Polyesters | Bond type? Necessary functional groups? Properties? IM bonding? compare MP and elasticity to nylon |
| 6. | Nylons | Bond type? Necessary functional groups?Properties? IM bonding? Compare MP and elasticity to polyester |
| 7. | Special nylons | Properties and usesNylon 6,6 nylon 6,10 Kevlar |
| 8. | polypeptides | Identify acid residues. Draw polypeptide given amino acids |
| 9. | 1°, 2° and 3° structure of proteins | Diagrams, types of bonds |
| 10. | Glass transition temp | What is it? Can you predict it from structure? Car dashboard. |
| 11. | Cleaving proteins | Identify primary structure given smaller chains resulting from treatment with enzyme. Like examples. |
| 12. | Response to stimulus | Plastics/bioplastics/recyclingPage long responseUse chemistry NOT SOSEAdvantages & disadvantages |
| 13. | Tertiary structure | Predicting possible acid residues that could result in the shape given.Multiple answers possible. |