Biotechnology Topics

**Vaccines** – biotechnology and antigens
1. HPV
2. Hepatitis B
3. Meningitis
4. Flu vaccine development
5. Ebola
6. Dengue Fever

**Antibiotics**
7. Teixobactin
8. MRSA

**Biofuels**
9. Algae
10. Yeast to make ethanol and biodiesel

**GMO’s – genetically modified organisms**
11. Plants
12. Animals
13. Microorganisms (2010 bacterium that causes infections in goats/yeast)

**Genetic engineering**
14. insulin production
15. Artemisinin (anti-malarial drug from yeast)

**Protein engineering**
16. PCR
17. Restriction enzymes and electrophoresis (used in criminal investigations)

**Stem cell technology**
18. Insulin
19. Retinas

**Tissue engineering**
20. 3-D brain
21. Pancreas

**Gene therapy**
22. Heart cells transformed into pacemakers
23. Gene surgery
24. Cystic fibrosis

25. DNA Fingerprinting
26. Nanotechnology
27. Pest resistant crops – transgenic crops
28. Cloning of animals (Dolly)