

# PODCAST EPISODES SEASONS 1 & 2



## UNIT 1: CHEMISTRY OF LIFE

4 - Water Chemistry  
5 - Biological Molecules  
6 - Elements of Life  
47 - Proteins  
48 - Carbohydrates  
49 - Lipids

## UNIT 2: CELL STRUCTURE AND FUNCTION

7 - Surface Area/Volume  
8 - Cell Structure & Function  
9 - Transport  
30 - Osmosis & Water potential  
34 - Chloroplasts vs. Mitochondria  
50 - Prokaryotic vs. Eukaryotic cells  
51 - Dull King Phillip  
52 - The Endomembrane System  
53 - Passive Transport  
54 - Active Transport

## UNIT 3: CELLULAR ENERGETICS

10 - Enzymes & Energy  
11 - Photosynthesis  
12 - Cellular Respiration  
35 - Energy & Graphing  
55 - Glucose Combusting  
45 - Activation Energy  
57 - Electron Transport Chains  
58 - Enzymes and Pacman  
59 - Calvin vs. Krebs

## UNIT 4: CELL COMMUNICATION & CELL CYCLE

13 - Cell Communication  
14 - Feedback  
15 - Cell Cycle & Regulation  
36 - Signal Transduction & the Nervous System  
60 - Cyclins and CKDs  
61 - Homeostasis  
62 - Mitosis

## UNIT 5: HEREDITY

16 - Mitosis vs. Meiosis  
17 - DNA  
18 - Genetics  
37 - Chromosomal Inheritance  
63 - Meiosis  
64 - Mendel's Rules  
65 - Breaking Mendel's Rules  
66 - Epistasis

## UNIT 6: GENE EXPRESSION & REGULATION

19 - DNA Replication  
20 - Central Dogma  
21 - Gene Regulation  
31 - Mutations  
32 - DNA vs. RNA  
33 - Biotechnology  
67 - Codons  
68 - Transcription vs. Replication  
69 - Crafting a Gene  
70 - Helicase unzips

## UNIT 7: NATURAL SELECTION

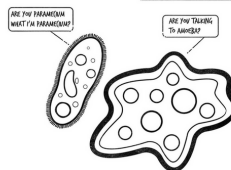
40 - Natural Selection  
41 - Population Genetics  
42 - Evidence of Evolution  
71 - Origin of Life  
72 - Hardy-Weinberg Equilibrium  
73 - Phylogeny  
74 - Common Ancestry  
75 - Continuing Evolution

## UNIT 8: ECOLOGY

43 - Energy in Ecosystems  
44 - Population Ecology  
45 - Ecosystem Disruptions  
76 - Responses to the Environment  
77 - Metabolism & Energy  
78 - Biodiversity

## EXAM & COURSE INFORMATION

1 - AP Overview & Exam Structure  
2 - Science Practices & Big Ideas  
3 - Exam Content  
23 - Lab Experiments  
25 - Math Reminders  
26 - Listener's Choice  
28 - Scientists RecAP  
38 - Listener's Choice II  
80 - Statistics  
81 - Listener's Choice III  
82 - Testing Strategies



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