

Children Book Resource Page

	Description	Chapter	California Content Standard
A	Describe the general structures and functions of DNA, RNA, and protein	8.2	5a,4e
B	Show how base-pairing rules explain accurate copying of DNA during semi conservative replication	8.3	5b
C	Show how base-pairing rules explain transcription of information from DNA into mRNA	8.4	5b
D	Show the pathway by which ribosomes make proteins	8.5	4c
E	Show how genetic coding rules predict the order of amino acids from a string of codons in mRNA	8.5	4a
F	Explain how mutations in the DNA sequence of a gene may or may not affect the gene expression, or the sequence of amino acids in an encoded protein	8.7	4b
G	Specialization of cells in multicellular organisms is usually due to different patterns of gene expression rather than to differences of the gene themselves.	8.6	4d
H	Proteins can differ from one another in the number and sequence of amino acids	Sec 8.5 and pg. 47	4e,4f
I	How genetic engineering (biotechnology) is used to produce new biomedical and agricultural products	9.4	5c,5d