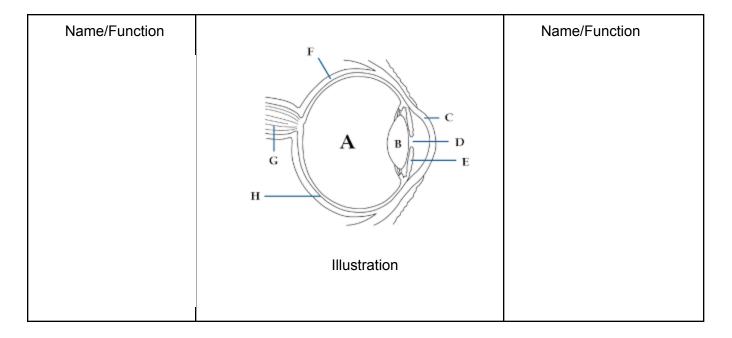
## CALIFORNIA SCIENCE 7 STATE STANDARDS

## **CELL BIOLOGY - STANDARD #1**

1.	All living organisms are compose visible only through a		, from just one to many tril	lions, whose details usually are
2.	Cells function		ganisms.	
3.	Characteristics that distinguish p			
4.	The	 _is the repository for	genetic information in plant a	nd animal cells.
5.	What does repository mean?			
6.		liberate energy fo	or the work that cells do and _	capture
	sunlight energy for photosynthe	sis.		
7.	Use a Venn diagram to compare should reflect the shape of a pla		• .	animal cells. The diagram
/				
		(	)	)
\				
	Cells divide to increase their num			, which results in two
	daughter cells with			
	As multicellular organisms develo			
	What does differentiate mean? _			
11.	What does differentiation mean?			·
		GENETICS_S	STANDARD # 2	
12.	A typical cell of any organism cor	ntains	instructions that	at specify its traits.
13.	Traits may be modified by		influences.	
14.	Sexual reproduction produces of	fspring that inherit	their genes from	om each parent.
15.	An inherited trait can be determine	ned by one or more	·	

16.	every	•	erent genes and ty	pically have two	copies of
17.	. The two copies (	) of the gene ma	y or may not be id	dentical and one	e may be dominant in
	determining the	while the othe	er is		
18.	. DNA (deoxyribonucleic acid) is of each	_			ı the
19.	Biological evolution accounts f	or the	develop	ed through	
	processes over many generat				
20.	varia		I factors are cause	es of evolution a	ınd
	of or				
21.	. The reasoning used by Charles		conclusion that _		selection is the
	mechanism of evolution.				
22.	·	_ lines of	from		
	, and c	omparative	<u> </u>	provide the bas	is for the theory of
	evolution.				
23.	. Constructing a simple branching	g diagram can be used	to classify living of	groups of organi	isms by shared derived
	aı				
24.	of	a species occurs when	1	cha	nges and that the adaptive
	characteristics of a species are	e	for its s	survival.	
25.	EARTH AND LIF	•		·	
26. Earth processes today are similar to those that occurred in the past and slow processes					
	cur	nulative effects over lo	ng periods of time	· }.	
27.	. The history of life on Earth has	been disrupted by majo	or	e	vents, such as major
28.	. The rock cycle includes the forr	nation of new		and rocks ar	nd that rocks are often
	found in layers, with		generally on the	bottom.	
29.	. Evidence from geological layers	s and radioactive dating	g indicates Earth is	s approximately	billion
	years old and that life on this p	planet has existed for m	nore than 3 billion	years.	
30.	provide	evidence of how life ar	nd environmental	conditions have	changed.
31.	. Movements of Earth's continent	al and oceanic	thro	ugh time, with a	ssociated changes in
	and geo	graphic connections, h	ave affected the p	oast and presen	t
	(	of organisms.			
32.	Explain the significant devel	opments and extinction	ons of plant and	animal life. Dr	aw an illustration of the
	geologic time scale.				

	xplanation:
-	
	ustration
L	
33. T	e and of plants and animals illustrate the complementary
r	ture of structure and function.
34. Pl	ts and animals have levels of organization for structure and function, including, cells,,
C	ans,, and the whole organism.
35. Or	an systems function because of the contributions of individual, tissues, and cells. The
fa	ure of any part can affect the system.
36. Bo	es and work together to provide a structural framework for movement.
37. Th	reproductive organs of the human female and male generate and sperm and how sexual
a	ivity may lead to fertilization and pregnancy.
38. W	at is the function of the umbilicus and placenta during pregnancy?
_	<del></del>
_	
_	
39. Co	pare the structures of the eye and ear to their function.
_	
_	_



41. Draw an illustration of the ear, label it, then explain how each organelle in the ear functions.

Name/Function	Illustration	Name/Function
	connects to the brain  connects to the mose  @EnchantesLearning.com	

## PHYSICAL PRINCIPLES IN LIVING SYSTEMS

(PHYSICAL SCIENCE) - STANDARD 6

42. Physical principles und	erlie biological structures and functions.
43. Visible light is a	band within a very broad electromagnetic spectrum.
44. For an object to be se	n, light emitted by or scattered from it must be detected by the
45. Light travels in a	· if the medium it travels through does no
change.	
46. Simple	are used in a magnifying glass, the eye, a camera, a telescope, and a microscope.
47. White light is a mixture	of many (colors) and that retinal cells react differently to different
wavelengths.	
48. Light can be	,, matter.

Place Joints Found	Type of Joint	Illustration	Where are "joints" found in machines?
	Sliding Joints		
	Ball and Socket		
	Hinge		
tractions of the boost o			
rculatory system.	ATION AND EXPE	ERIMENTATION –	
INVESTIG	ATION AND EXPE by asking meaningful	ERIMENTATION –	STANDARD 7
INVESTIGE CIENTIFIC PROPERTY OF THE PROPERTY O	ATION AND EXPE by asking meaningful	ERIMENTATION –	STANDARD 7 _ and conducting careful ing calculators, computers,
INVESTIGE Elect and use appropriate	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –	STANDARD 7 _ and conducting careful ing calculators, computers,
ientific progress is made elect and use appropriate elances, spring scales, r	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –  (including ars) to perform tests, colle	STANDARD 7 _ and conducting careful ing calculators, computers, ct data, and display data.
ientific progress is made elect and use appropriate ealances, spring scales, r	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –  (including ars) to perform tests, colle	STANDARD 7 _ and conducting careful ing calculators, computers, ct data, and display data.
ientific progress is made elect and use appropriate alances, spring scales, r	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –  (including ars) to perform tests, colle	STANDARD 7 _ and conducting careful ing calculators, computers, ct data, and display data.
INVESTIG cientific progress is made	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –  (including ars) to perform tests, colle	STANDARD 7 _ and conducting careful ing calculators, computers, ct data, and display data.
INVESTIG cientific progress is made elect and use appropriate balances, spring scales, r  Tool  Calculator  Computer  Balances	ATION AND EXPE by asking meaningful by asking meaningful	ERIMENTATION –  (including ars) to perform tests, colle	STANDARD 7 _ and conducting careful ing calculators, computers, ct data, and display data.

	Thermometer				
	Graduated Cylinder				
	Metric Ruler				
	Petri Dish		N/A		
	Microscope Slide		N/A		
	Microscope Slide Cover		N/A		
	Slip				
	Pipette				
55. l	Use a variety of print and ele	ectronic resources (including the Wo	rld Wide Web) to collect		
		and	as part of a research project.		
56. (	. Communicate the logical connection among hypotheses, science concepts, tests conducted, data				
	collected, and conclusions drawn from the scientific				
57	7 scale models, maps, and appropriately labeled diagrams to				
	communicate scientific knowledge (e.g., motion of Earth's plates and cell structure).				
58		the steps and results from a	an investigation in written reports and		
	oral presentations.				