Read the question.

Put a \star if you know it and a ? If you do not.

Answer all the ★ questions using just your brain.

Use your notes/our webpages/books to look up and complete all the ? questions.

Mark/verify your answers to the ★ questions using notes/webpage/books.

Make any required improvements to 'perfect' your answers.

* / ?	Question:	Answer:
	Compare and contrast: Prokaryotes and Eukaryotes	
	Compare and contrast: Light and Electron Microscopes	
	Compare and contrast: The different cell membrane models.	

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Question:	Answer:
contrast: Organic versus	
contrast: Saturated versus unsaturated fatty	
contrast:	
(() () () () ()	Compare and contrast: Organic versus inorganic Compare and contrast: Saturated versus unsaturated fatty acids. Compare and contrast: DNA and RNA

Question:	Answer:
Compare and contrast: Aerobic versus anaerobic respiration.	
Compare and contrast: The action and absorption spectrum.	
Compare and contrast: Chromosome structure of prokaryotic and eukaryotic cells,	

/ ?	Question:	Answer:
	Compare and contrast: Autosomes and sex chromosomes.	
	Compare and contrast: Autotrophs and heterotrophs.	
	Distinguish between: Consumers, detritivores and saprotrophs.	

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* / ?	Question:	Answer:
	Compare and contrast: Analogous and homologous structures.	
	Compare and contrast: Autotrophs and heterotrophs.	
	Distinguish between: Animals using external recognition features (birds, mammals, amphibians, reptiles and fish).	

★ / ?	Question:	Answer:
	Compare and contrast: The movement of carbohydrates, lipids and proteins during digestion.	
	Compare and contrast: Immune responses	
	Distinguish between: Antibodies and antigens	

?	Question:	Answer:
	Compare and contrast: The two different types of pneumocytes.	
	Compare and contrast: Lung cancer and emphysema.	
	Distinguish between: Ventilation, gas exchange and respiration.	

* / ?	Question:	Answer:
	Compare and contrast: Hormonal and nervous control.	
	Compare and contrast: The control of blood glucose levels and temperature.	
	Distinguish between: Type I and type II diabetes.	

?	Question:	Answer:
	Compare and contrast: IVF and the menstrual cycle.	
	Compare and contrast: The action of leptin, thyroxin and melatonin.	
	Distinguish between: The males and female reproductive systems.	

* / ?	Question:	Answer:
	Compare and contrast: DNA replication on the leading and lagging strand.	
	Distinguish between: Coding and non- coding DNA.	
	Distinguish between: The different levels of protein structures.	

* / ?	Question:	Answer:
	Distinguish between: Fibrous globular proteins.	
	Compare and contrast: DNA replication and transcription.	
	Distinguish between: Polar and non- polar amino acids.	

?	Question:	Answer:
	Compare and contrast: Transcription and translation.	
	Compare and contrast: The effect of proteins on gene expression.	
	Distinguish between: Active and inactive tRNA molecules	

Question:	Answer:
Compare and contrast: Chromatin and heterochromatin	
Compare and contrast: Competitive and non-competitive inhibition.	
Distinguish between: The limiting factors which affect photosynthesis.	

/ ?	Question:	Answer:
	Compare and contrast: The structure of a mitochondria and a chloroplast.	
	Compare and contrast: Photosynthesis and respiration.	
	Distinguish between: The light dependent and light independent reactions of photosynthesis.	

?	Question:	Answer:
	Compare and contrast: Photophosphorylat ion in photosynthesis and the ETC in respiration.	
	Compare and contrast: The Calvin Cycle and the Krebs Cycle	
	Distinguish between: The phloem and the xylem	

/ ?	Question:	Answer:
	Compare and contrast: The circulatory system and the plant transport system.	
	Compare and contrast: Temperature homeostasis and the transpiration in plants.	
	Compare and contrast: Translocation and digestion.	

* / ?	Question:	Answer:
	Compare and contrast: The leaf and the lungs.	
	Compare and contrast: Inheritance when genes are linked and not linked.	
	Distinguish between: Pollination, fertilization and seed dispersal.	

* / ?	Question:	Answer:
	Compare and contrast: Allopatric and sympatric speciation.	
	Compare and contrast: Convergent and divergent evolution.	
	Distinguish between: Discrete and continuous variation.	

* / ?	Question:	Answer:
	Compare and contrast: Active and passive immunity.	
	Compare and contrast: Excretory products of different species.	
	Distinguish between: Osmoregulators and osmoconformers.	

★ / ?	Question:	Answer:
	Compare and contrast: Spermatogenesis and oogenesis.	
	Compare and contrast: Internal and external fertilization.	
	Distinguish between: Contracted and relaxed muscle fibers.	

/ / ?	Question:	Answer:
	Compare and contrast: Insect and human excretory systems.	
	Compare and contrast: Ultrafiltration, selective reabsorption in the kidney and absorption in the small intestines	
	Distinguish between: Kidneys with and without kidney disease.	

★ / ?	Question:	Answer:
	Compare and contrast: The placenta to the thyroid gland.	
	Compare and contrast: Gestational periods of humans compared to another mammal.	
	Distinguish between: Positive and negative hormonal feedback systems.	