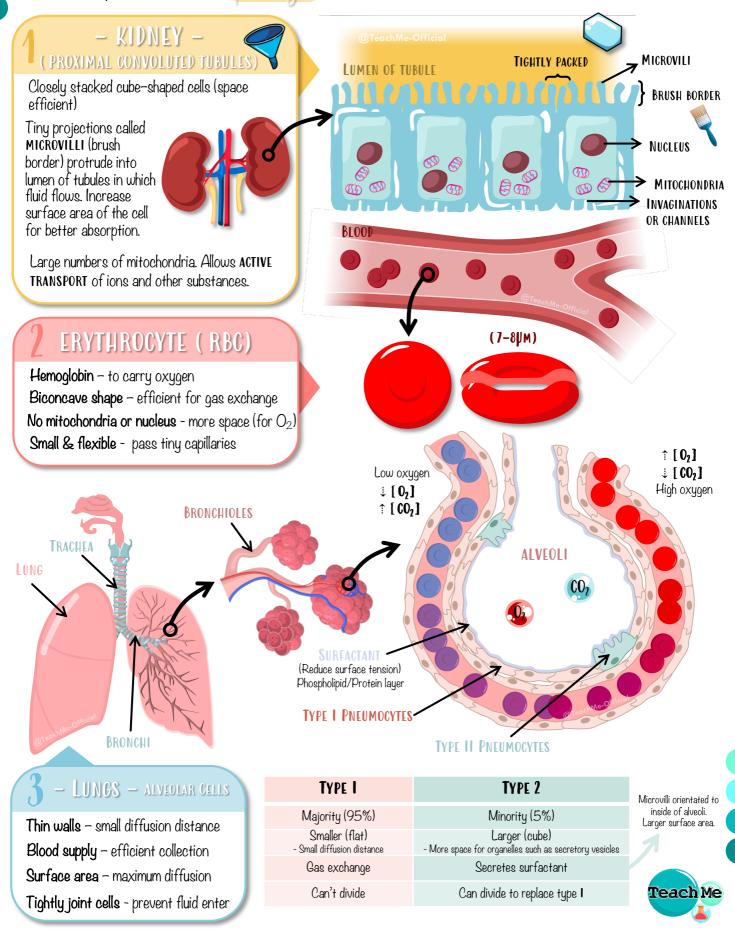
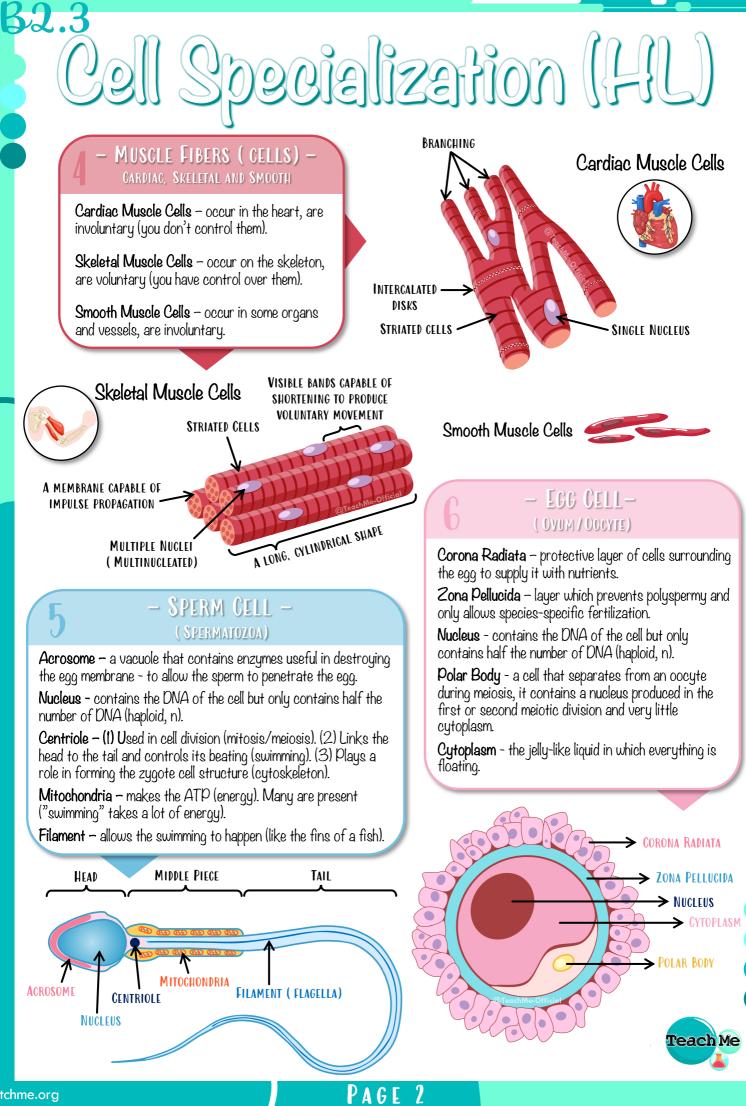
ell Specialization (HL)

We explore how some cells specialized in order to become more efficient at their task;







Some differences between the two types of gametes; sperm cells and egg cells

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J.J.J

– SPERM CELL – (Spermatozoa)	- EGG CELL- (OVUM / OOCYTE)
One of the SMALLEST human cells 3µm in width, 50µm in length	One of the LARGEST human cells 120µm
Streamlined body with flagellum (for motility) Mitochondria located near the flagellum to supply energy for movement	Shape is spherical (not streamlined)
Very few cytoplasmic organelles	Most cytoplasmic organelles are present plus specialized storage structure for initial embryo development
Continually produced in vast numbers throughout the life of a a male	All the early gamete-forming cells are present before birth. No new egg-forming cells are produced after birth
Head has a specialized secretory vesicle called the acrosomal vesicle that helps the sperm penetrate the egg's outer coat	Has special secretory vesicles just under the plasma membrane that release their contents after one sperm penetrates the egg to prevent other sperm from entering (polyspermy)
Contains a haploid (n) nucleus	Contains a haploid (n) nucleus

Specialization (HIL)

Teach Me





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