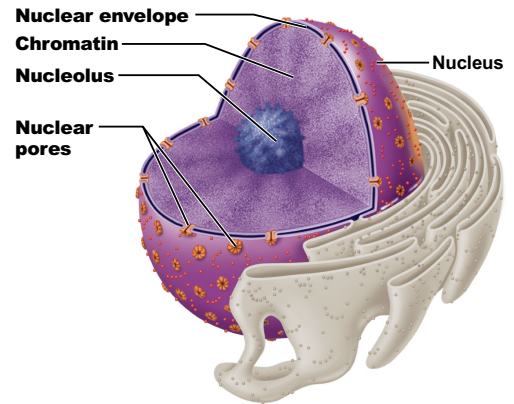
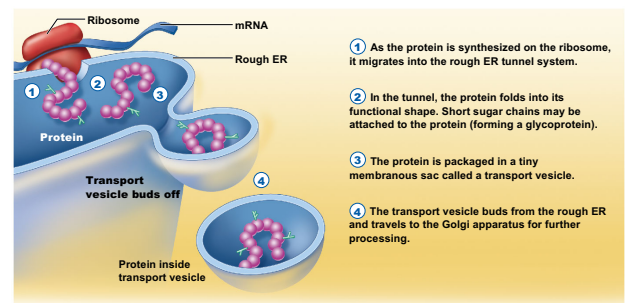
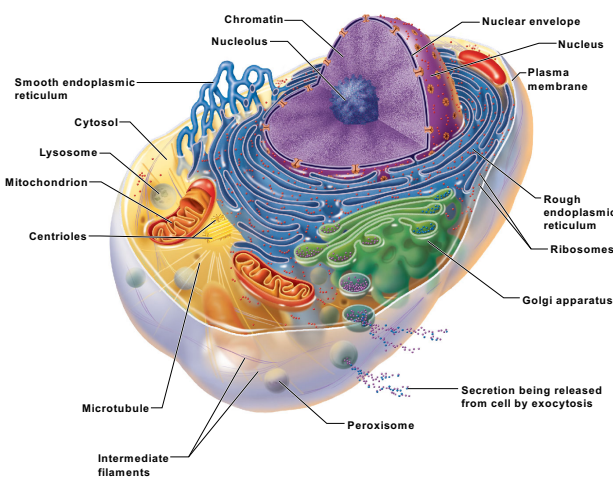
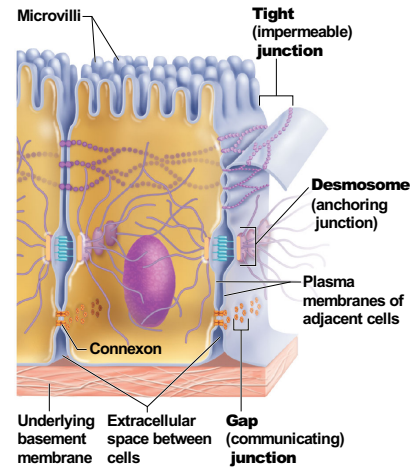
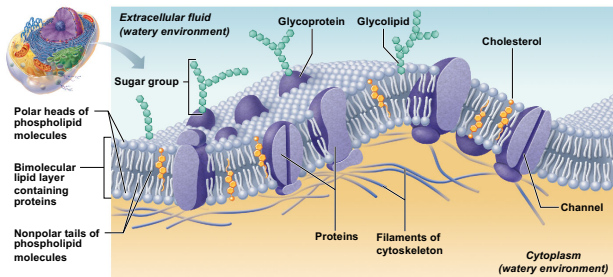
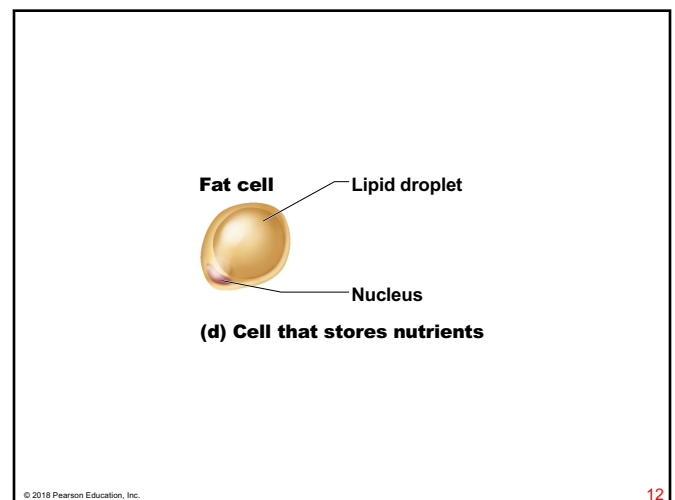
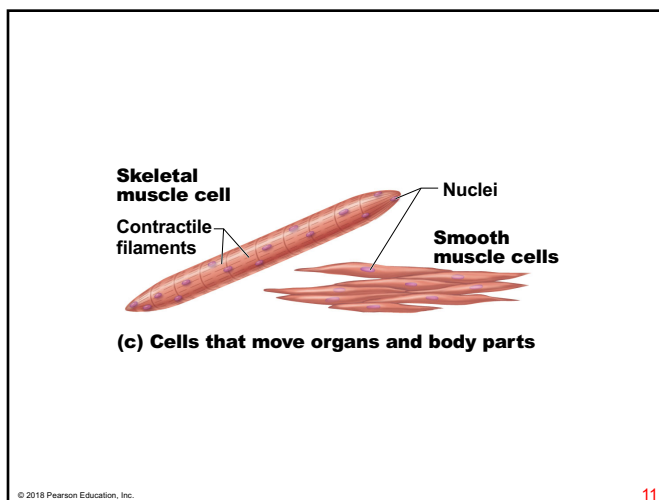
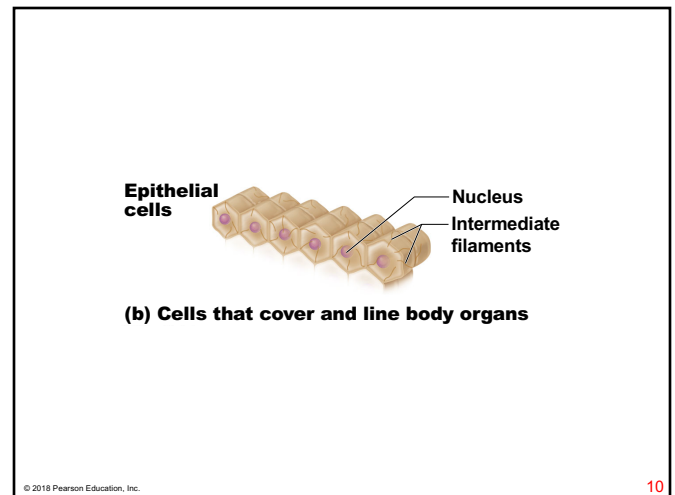
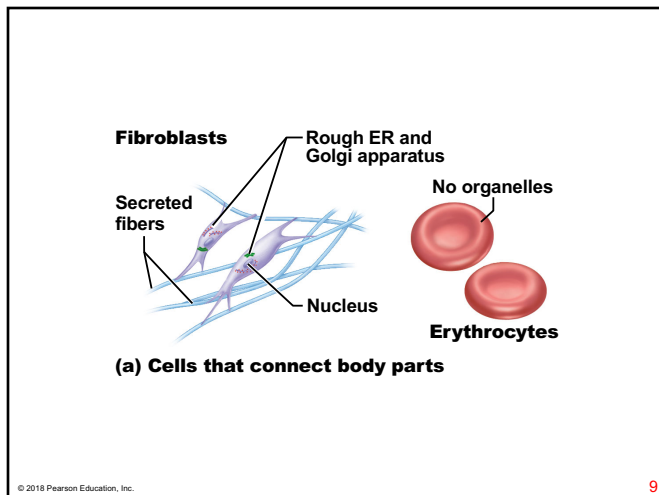
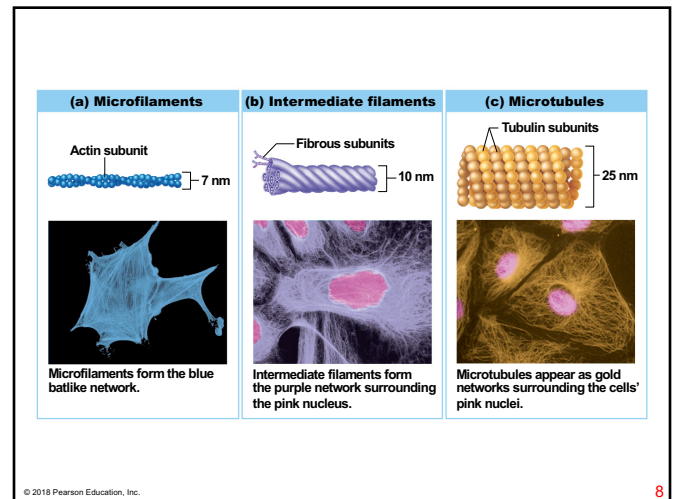
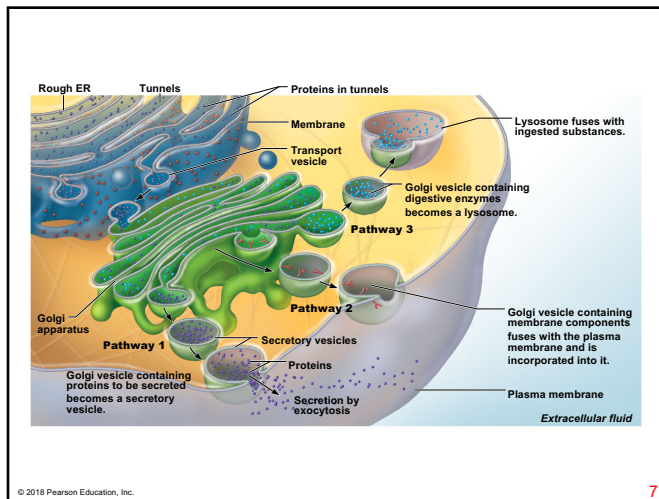


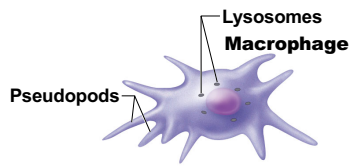
(a) Generalized animal cell



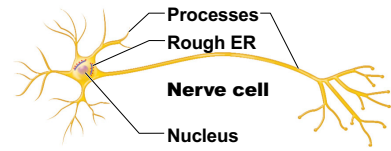
(b) Nucleus



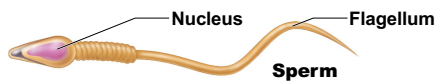




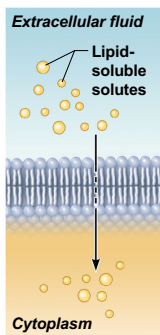
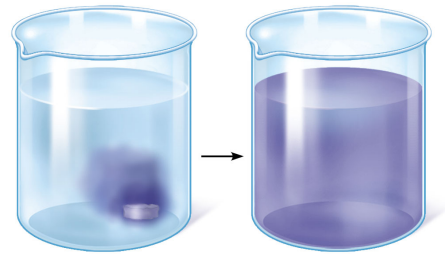
**(e) Cell that fights disease**



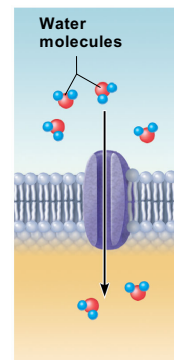
**(f) Cell that gathers information and controls body functions**



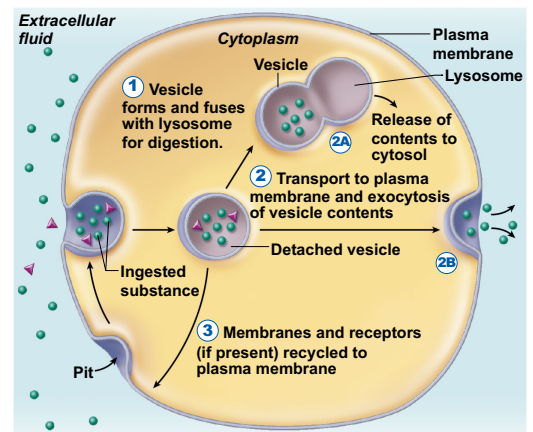
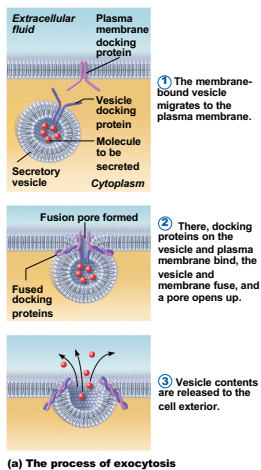
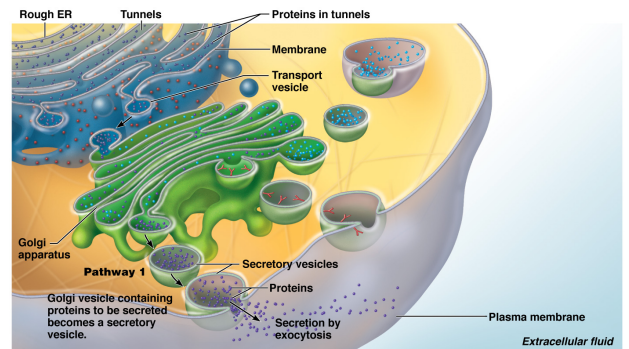
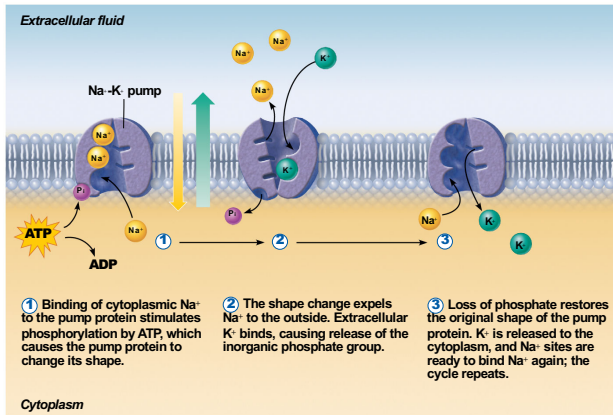
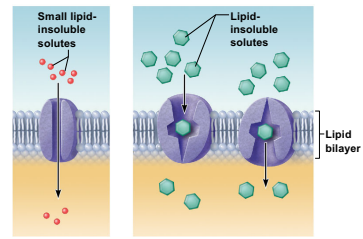
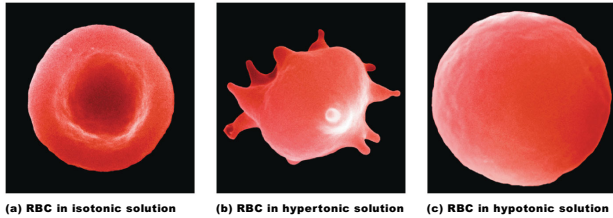
**(g) Cell of reproduction**



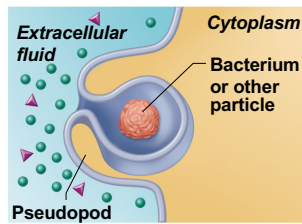
**(a) Simple diffusion of lipid-soluble solutes directly through the phospholipid bilayer**



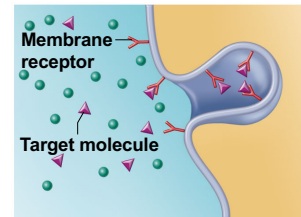
**(b) Osmosis, diffusion of water through a specific channel protein (aquaporin)**



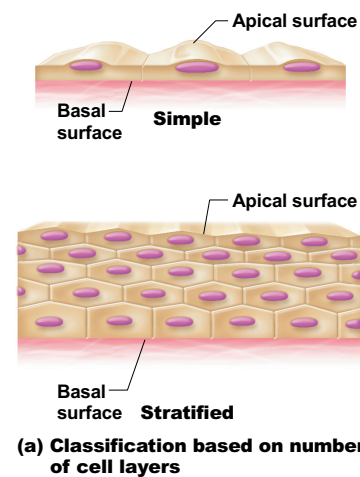
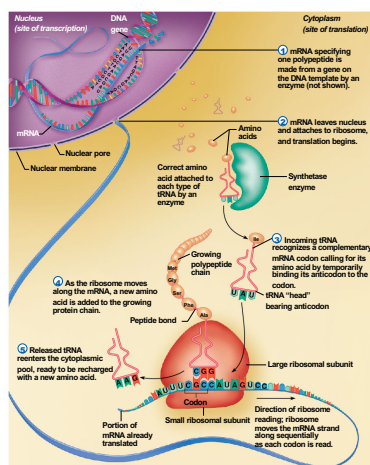
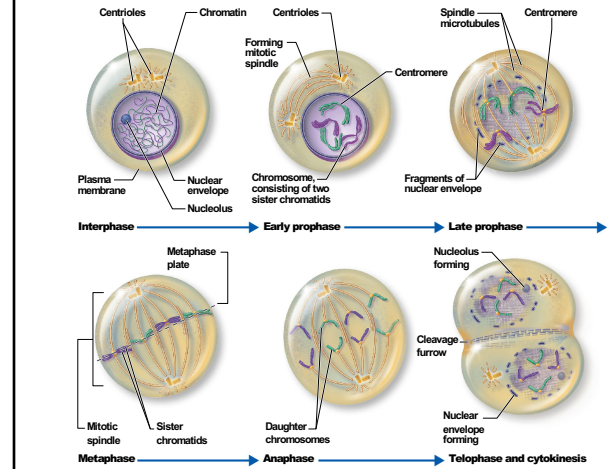
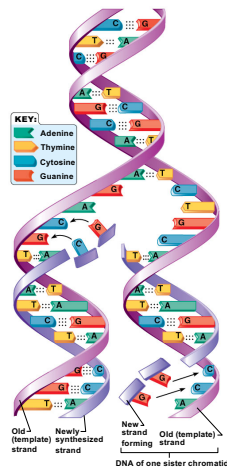
**(a) Endocytosis (pinocytosis)**



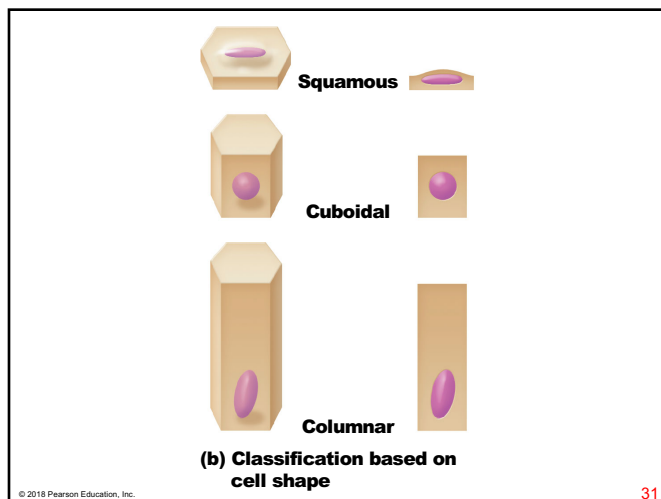
(b) Phagocytosis



(c) Receptor-mediated endocytosis







Cell shape	Number of layers	
	One layer: simple epithelial tissues	More than one layer: stratified epithelial tissues
<b>Squamous</b>	Diffusion and filtration; Secretion in serous membranes	Protection
<b>Cuboidal</b>	Secretion and absorption; ciliated types propel mucus or reproductive cells	Protection; these tissue types are rare in humans
<b>Columnar</b>	Secretion and absorption; ciliated types propel mucus or reproductive cells	
<b>Transitional</b>	No simple transitional epithelium exists	Protection; stretching to accommodate distension of urinary structures

(c) Function of epithelial tissue related to tissue type

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