EOI	BE.	$\pi \mathbf{E} \mathbf{W}$	PA	CKET

NAME

Standard 1: The Cell—Cells are the fundamental unit of life, composed of a variety of structures that perform functions necessary to maintain life.

1. Cells are composed of a variety of structures, such as the nucleus, cell membrane, cell wall, cytoplasm, ribosomes, mitochondria, and chloroplasts. <u>FIVE QUESTIONS ON EOI</u>

	function	structure	Plant, animal and/or bacteria*
cytoplasm			
ribosome			
cell wall			
chloroplasts			
nucleus			
mitochondria			
cell membrane <sup>+</sup>			

diffusion -

surface area to volume ratio -

2. Cells can differentiate and may develop into complex multicellular organisms (i.e., cells, tissues, organs, organ systems, organisms). **THREE QUESTIONS ON EOI** 

List the following in order from least complex to most complex and define them: cells organisms organs organ systems tissues

<sup>\*</sup> Be sure you can classify a cell as animal plant or bacteria based on the structures they have.

† Define the following terms and explain how they relate to the cell membrane: osmosis -