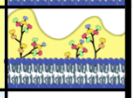
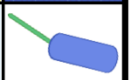
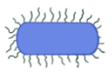
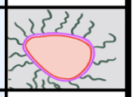
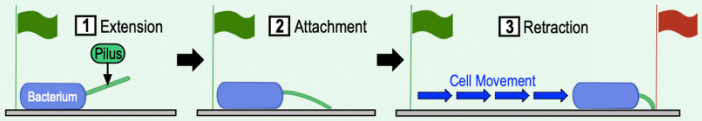
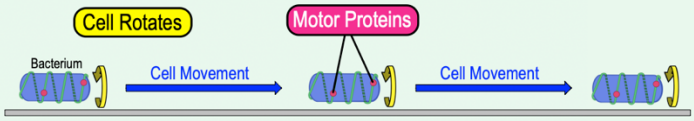
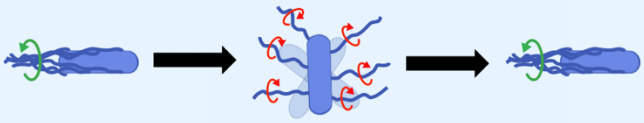
CONCEPT: REVIEW OF PROKARYOTIC SURFACE STRUCTURES

●Now let's review the different prokaryotic cell surface structures:

	Structure	Description	
Glycocalyx	_____	Highly *organized* layer of polysaccharides anchored to the cell.	
	Slime Layers	____-*organized* layer of polysaccharides loosely attached to the cell.	
	Pili	Long protein filaments that _____ from the cell surface.	
	_____	Short filaments extending from the cell, used for attachment.	
	Hami	Short protein filaments only found in _____ cells.	
	Flagella	*Long* protein filaments that drive swimming _____.	

Types of Cell Motility

Motility Type	Structure Used	Mechanism
Twitching	_____	
Gliding	_____	
Swimming	_____	

PRACTICE: Which prokaryotic cell surface structure is ***correctly*** matched with its function?

a) Hami: Short protein filaments that hold bacterial cells together.

b) Flagella: Long protein filaments that allow cells to swim.

c) Fimbriae: Short pilin filaments which hold archaea cells together.

d) Pili: Long filaments of pilin that are only used in DNA transfer between bacterial cells.