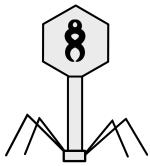
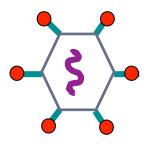
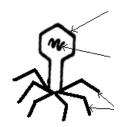
Viruses



Viruses are	considered to be livi	ng organisms because:			
not made up of			_		
 only capable of 1 _ 	function				
• i.e & only within a living cell					
Virus: Microscopic biolo	ogical	that causes	; composed		
of a that	surrounds	material			
Capsid:coat of a virus that is composed of repeating					
molecules					
• Even though viruses a	ıre	, microbiologists study the	em because		
i) Cause disease by other organisms					





Viruses are classified by:

ii) very _____ size

- 1) _____
- host range (types of cells that the virus can infect)
 - a) cold virus (human respiratory cells)
 - b) rabies (nerve cells in dogs)
 - c) HIV (human white blood cells)
 - d) bacteriophage (bacteria)
- 2)_____
- size and shape of the capsid
- type genetic material

Viral Size

- very small, measured in units called nanometres (nm)
- 1nm = 1X10⁻⁹ m (billionth of a metre)

Viral Replication

Lytic Cycle			
• Step 1 – A&P:			
 Virus attaches to host and 	d injects DNA		
• Step 2 –			
Viral DNA	cell to pro	oduce more virus parts	
• Step 3 –			
New virus parts	into new		
• Step 4 –			
 New viruses released fro 	m	cells.	
Lysogenic Cycle			
Virus goes	(sleep)		
Virus injects DNA,		take control of host.	
• Cell reproduces normally, all	daughter cells	contain the	
Host cell does not	At some p	oint the virus can be triggered to re-enter	
lytic cycle (pregnancy, illness	s, stress)		
Why are Viruses So Hard to	Treat?		
1) No is a	vailable to kill v	iruses in the body	
2) Some viruses are		can remain dormant for years (hide inside	
cells) ex. a) Herpes Simplex V	irus I (HSV I)		
3) Some viruses can cause ce	lls to become	(HPV)	

