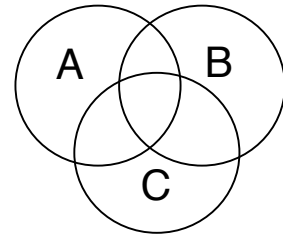


## VENN DIAGRAM: DNA, RNA AND PROTEIN



### **A only:**

deoxyribose  
double stranded  
template for transcription  
makes up the inherited genetic info  
Ts  
has a template strand

### **common to A and B only:**

A, G, and C  
contain phosphate  
**linked by phosphodiester bonds**  
a kind of nucleic acid  
composed of nucleotides  
contains nitrogenous bases  
contains 5 C sugars  
has 5' and 3' ends

### **B only:**

ribose  
Us  
produced by transcription  
template for translation

### **C only:**

composed of amino acids  
linked by peptide bonds  
product of translation  
**sequence of monomers determines  
3-D shape and function**  
enzymes and cytoskeleton are  
composed of this

### **common to B and C only:**

ribosomes are composed of this

### **common to A, B and C:**

**a polymer**

composed of monomers  
contains nitrogen (amino group in  
proteins and base in nucleic acids)

### **common to A and C only:**

**chromatin and chromosomes are  
composed of this**