**Chapter 12 DNA Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ of DNA**
* **Deoxyribonucleic Acid**
	+ **Complex \_\_\_\_\_\_\_\_\_\_\_\_ called a \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_**
	+ **Serves as \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ of information code**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_ with each \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_ from \_\_\_\_\_ generation to the \_\_\_\_\_\_**
	+ **Composed of repeating \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
		- **Subunit of a \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_**
1. **Nucleotide Structure**
* **Three Parts:**
	+ **\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ group**
	+ **One of \_\_\_\_\_\_\_\_\_ nitrogen \_\_\_\_\_\_\_\_\_\_:**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (A)**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (T)**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (G)**
		- **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (C)**
* **A \_\_\_\_\_\_\_\_\_\_\_\_\_ joins with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ always joins with \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ always joins with \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
1. **Nucleotide Chains**
* **Nucleotides combine to \_\_\_\_\_\_\_\_\_\_ a \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_**
* **\_\_\_\_\_ chains joined together at the \_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_\_\_\_\_\_ bonds (looks like a \_\_\_\_\_\_\_\_\_\_\_)**
* **Ladder \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, giving a “\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_” shape**
1. **Importance of Sequence**
* **\_\_\_\_\_\_ DNA has similar \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_**
* **\_\_\_\_\_\_ bases offer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of possible combinations =**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!!!**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of DNA**
* **DNA must be “\_\_\_\_\_\_” every time a \_\_\_\_\_ \_\_\_\_\_\_\_\_**
* **HOW?**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_ breaks down the \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ and “\_\_\_\_\_\_\_” the DNA**
	+ **\_\_\_\_\_-\_\_\_\_\_\_\_\_ nucleotides join in to make \_\_\_\_\_\_ pairs**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_ reform \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**