

## Science 9 Topics Covered Chapter 6

### **Section 6.1 pg 176-178**

#### **DNA**

- What it is made of
- What the acronym means
- How it is replicated and why replication is important
- What are DNA fingerprints and when can they be used

### **Section 6.2 pg 180-181**

#### **Mutations**

- What causes mutations?
- What can happen if a mutation occurs?

#### **Cancer**

- What causes it?
- How are these cells different than regular cells?
- What are the two types of tumors?

### **Section 6.5 pg 186-187**

#### **Regeneration**

- How it happens
- compare it to fragmentation
- Why can certain organisms regenerate and others cannot?
- What humans can and can't regenerate and why

#### **Stem cells**

- what are they
- How are they different than specialized cells?

### **Section 6.6 pg 188-189**

#### **Transplants**

- What organs can/cannot be transplanted?
- What experiments are being tried?

### **Section 6.9 pg 194-197**

#### **Cloning**

- What is cloning?
- What types of things have been cloned?
- How was dolly's cloning different than other organisms
- Be able to explain briefly how cloning occurs in plants and animals
- Are you for or against cloning (be able to support your choice)