**Group Investigation Cards**

**Group I: Antibiotic resistance**

1. **What is antibiotic resistance?**
2. **How many people does it affect?**
3. **What causes it?**
4. **What are the most common antibiotic resistant diseases?**
5. **Who is at risk?**
6. **How can it be prevented?**

**Group II: Vaccines**

1. **What are vaccines and how do they work?**
2. **What is the difference between live attenuated vaccines and dead (inactivated) vaccines, and how are they administered?**
3. **What ingredients are in vaccines?**
4. **Why aren’t vaccines available for all diseases?**
5. **What diseases around the world have dramatically decreased due to global vaccine programs?**
6. **Can vaccines give the disease they are supposed to prevent?**

**Group III: Autoimmune Diseases/Disorders**

1. **What are autoimmune diseases?**
2. **How common are these diseases?**
3. **Who tends to get autoimmune diseases?**
4. **Are chronic fatigue syndrome and fibromyalgia autoimmune diseases?**
5. **What are ten of the most common autoimmune diseases and how do they affect the human body?**
6. **What treatments are available for autoimmune diseases?**

**Group IV: Allergies & the Immune System**

1. **What are allergies?**
2. **What is the allergic cascade?**
3. **What are the most common allergy symptoms?**
4. **What is a systemic reaction and why is it dangerous?**
5. **Why is anaphylactic shock life threatening, and what is the only effective treatment?**
6. **What treatments are available for allergy sufferers?**

**Group V: Viruses**

1. **What are viruses and what do they look like? Give examples.**
2. **How do viruses attack cells, and what is the lytic cycle?**
3. **Once in an organism, are viruses “cell specific”?**
4. **Why do some viruses “run their course” and others not?**
5. **Why are some viruses latent for periods of time? Give an example of two.**
6. **What treatment is available for viruses?**

**Group VI: Stress & the Immune System**

1. **What is the stress response?**
2. **What is the cascade of physical changes that accompany stress?**
3. **Which hormones can suppress the immune system?**
4. **What is interleukin-6 and how is it affected by chronic stress?**
5. **Is there a connection between chronic stress and cancer?**
6. **Can stress have any positive effects?**