**Into the world of Pathogens…..**

**Project objectives**

To prepare a case study booklet on the disease assigned to your group.

From this students understand:

* the meaning of the term pathogen
* how a pathogen can spread a disease and what changes occurs within the organism.
* the various treatments present in the 21st century to help cure diseases ex. Vaccines, antibiotics etc.

**Project Outline:**

* Students work in groups of 5.
* The work is divided equally among all 5 members, for instance each student is responsible for writing information on at least 1 question mentioned below, on an A4 size sheet of paper.
* All sheets to be then compiled and made into a case study booklet, along with a cover page and a bibliography.
* The case study booklet to be presented in front of the class, by each member of the group.

**Project Components:**

* Cover Page
* Table of Contents
* Information on the following questions:

**Note:** *Information regarding each question must be written on a separate page along with appropriate pictures.*

1. What are the symptoms of the disease?
2. What is the pathology of the disease?

* *What is wrong inside the body/organism? Which parts are affected and how?*
* *How does the immune system respond to the disease?*

1. How is the disease transmitted?

* *Is there a microbial or an animal vector (carrier)? Describe its life cycle.*
* *How is it contagious or passed on to others?*

1. How prevalent is the disease?

* *How many people or organisms are affected in the world?*
* *Are there demographic or geographic patterns in the spread of the disease?*
* *What are the social, political, economic, or genetic factors that influence prevalence?*

1. What is the prognosis for a person with the disease?

* *How long do infected people/organisms live? Is it curable or only treatable?*
* *In which ways and how seriously are their lives affected?*

1. What treatments are available?

* *Are they costly? Are they available to the general public? If not, why not?*
* *What paths are researchers taking to try to prevent, control, treat or cure the disease? What does the latest research suggest?*
* Bibliography

**Marks allotment:**

* Content:15M
* Presentation/Creativity:10M
* On time Submission:5M