The Causes and Nature of Cancer
**Across**

4. the process in which cells from a malignant tumor break away from the original tumor and travel to other parts of the body through the blood or lymph system

5. don't stop dividing, similar to renewing cells

7. stop growing when an organ reaches adult size, these cells can grow to make up for the loss ex: kidney cells

8. a group of diseases in which there is irregular growth of abnormal cells that have the ability to metastasize

10. determined by genetic factors and therefore able to be passed on from parents to their offspring

12. related to two-thirds of all cancers ex: what we eat, smoking, drinking, lack of physical activity, etc.

16. substances that have been proven to initiate or promote cancer in humans

17. groups of cells that divide too much and form masses within organs (neoplasms)

18. center of a cell, directs what the cell does, including growth and reproduction

19. basic structural unit of the body

**Down**

1. thin outer cover of a cell, allows nutrients to be absorbed and waste products eliminated

2. reach a specific size and are no longer capable of growing and dividing ex: muscle or nerve cells

3. do not form solid tumors ex: Leukemia and Lymphoma

5. include complex hydrocarbons, certain nitrosamines, and certain metals, drugs, and hormones

6. the control mechanism of cells may also hold clue to the causes of cancer ex: smoking is an initiator and drinking is a promoter, two step process

9. include viruses that have been shown to attack the DNA of normal cells

11. include exposure to high levels of ionizing radiation or non-ionizing radiation or the effects of a solid plastic or crystal being absorbed by the body

12. a mass of cells that lack the ability to invade neighboring tissue or metastasize, non-cancerous

13. always being worn out and replaced, even when the body has reached adult size ex: blood, hair, skin

14. invade and destroy normal tissue

15. an infective agent that typically consists of a nucleic acid molecule in a protein coat, able to multiply within the living cells host