

Science 10

Worksheet 7-1

Effects and Applications of Radiation

10

Due Date _____
Correct & Hand In by _____

Name _____

Read pages 145-151 in Science Probe 10 to help you with the following questions:

1. Name 3 sources of **background** radiation.

2. Harmful radiation that comes from **radioactive isotopes** are _____, _____ and _____ radiation. Two types of *electromagnetic* radiation that are harmful are _____ and _____.

3. **Ionizing radiation** knocks _____ off of atoms, making them into _____.

4. Rapidly dividing cells in the _____ and the _____ are affected by large doses of ionizing radiation and can cause _____ sickness.

5. Out of control cell division is called _____. What are **mutations**? _____

6. A unit called the **Sievert** (Sv) measures the effect of a dose of radiation on _____

7. A unit called the _____ () measures the energy transferred to a material by a dose of ionizing radiation.