# Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



<< TIP>>: look out for the **RED** words on the web site!

## Go to the web site **www.darvill.clara.net/emag**

1. Click on “**How the waves fit into the spectrum**” and fill in this table:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Low \_\_\_\_\_\_\_\_\_\_, Long wavelength High frequency, Short \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | |
| Radio Waves |  |  |  |  |  | Gamma rays |

1. Click on “**Radio waves**”. They are used for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Click on “**Microwaves**”. They are used for **cooking**, **mobile** \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_  **cameras** and \_\_\_\_\_\_\_\_\_.
3. Click on “**Infra-red**”. These waves are given off by \_\_\_\_\_ \_\_\_\_\_\_\_\_\_. They are used for **remote controls**, cameras in **police** \_\_\_\_\_\_\_\_\_\_\_\_ , and **alarm systems**.
4. Click on “**Visible Light**”. This is used in \_\_\_ **players** and \_\_\_\_\_\_\_ **printers**, and for seeing where we’re going.
5. “**UV**” stands for “ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_”. This can damage the \_\_\_\_\_\_\_\_\_ in your eyes, and cause sunburn and even \_\_\_\_\_\_\_ cancer. Its uses include detecting forged \_\_\_\_\_\_ \_\_\_\_\_\_\_.
6. **X-rays** are used to see inside people, and for \_\_\_\_\_\_\_\_\_ security.
7. **Gamma rays** are given off by some \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ substances. We can use them to kill \_\_\_\_\_\_\_\_ cells, which is called **R**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
8. **My Quiz score is \_\_\_\_%.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **How they’re made** | **Uses** | **Dangers** | **\_\_\_\_\_ Frequency \_\_\_\_\_ frequency, Short wavelength \_\_\_\_\_\_ Wavelength** |
| **Gamma rays** |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |