


Name: _____ Date: _____ Base Group Teacher: _____ Lab: _____

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

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

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 |

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

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The Electromagnetic Spectrum

| Name | How they're made | Uses | Dangers | _____ Frequency Short wavelength  _____ Wavelength frequency, Wavelength |
|------------|------------------|------|---------|---|
| Gamma rays | | | | |
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