# Lesson 1 – Student Worksheets

### Vectors versus Bitmap Graphics

Match the description to the right type of graphic file

|  |  |  |
| --- | --- | --- |
|  | **Vector Graphic** | **Bitmap Graphic** |
| Made up of shapes, curves and lines |  |  |
| Use blocks of colours called ‘pixels’ |  |  |
| The detail doesn’t change if you change the image size |  |  |
| Becomes ‘pixellated’ when you zoom in too much |  |  |
| Used for photographs and high detail images |  |  |
| Used for animation, logos and T-shirt printing |  |  |
| Created by programs like Inkscape and Adobe Illustrator |  |  |
| Created by programs like GIMP and Adobe Photoshop |  |  |
| Like a drawing |  |  |

### Inkscape Shortcuts

|  |  |
| --- | --- |
| **Shortcut key/s** | **What it does** |
| *S* | *Activates the Selection tool to select, move and rotate objects* |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

### Inkscape Practice – Document properties and Zoom

***Tick off each action as you complete it***

1. 🞎 Start Inkscape if it isn’t already running
2. 🞎 From your S:\STEM\Inkscape folder open the file **1a fireflies.svg**
3. 🞎 Open **Document Properties** using either the **File** menu or the shortcut
4. 🞎 Write down the following properties of this picture:

|  |  |  |  |
| --- | --- | --- | --- |
| Orientation | Width | Height | Units |
|  |  |  |  |

1. 🞎 What colour is the border? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 🞎 **Wally**: find out what the border colour is in RGBA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 🞎 Close **Document Properties**
4. 🞎 There is some tiny (and unreadable) text just underneath the lamp. Zoom in until you can read the text
5. 🞎 Write down the text you’ve just found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 🞎 Zoom back out to see the whole picture
7. 🞎 Use either the **View** menu or a shortcut to make the image fill the whole screen.
8. 🞎 What menu option or short cut did you use? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. 🞎 Use either the **View** menu or a shortcut to show the whole image again. **DON’T use Zoom in or Zoom out!**
10. 🞎 What menu option or short cut did you use? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. 🞎 save the file with the name: **myfireflies.svg**
12. 🞎 Find out the shortcut for the menu option **File 🡪 Close**
13. 🞎 Close the file using the short cut.
14. 🞎 Write down the shortcut you just used: \_\_\_\_\_\_\_\_\_\_