Grade 10 Communications Technology   Mr. Brunato

Graphics Project: Vector Graphics

An Overview

There are three main programs used in the publishing industry, raster graphics (manipulating photos), vector graphic (creating and manipulating shapes) and publication (arranging images and text). This project is to acquaint you will all the basic skills of using and applying vector graphics. All of the images that you create will consist of shapes. We will be using Adobe Illustrator, a vector program which is extensively used in industry. One such application of this program is creating logos.

Key Concepts and Skills

- tools that use shapes
- outline and fill
- arrange and group

- the pen tool, anchor points, control handles
- Bezier curves, selection tool, direct selection tool, convert anchor point tool

Assessment

Creating Different Shapes

In the order listed below, create the following shapes using the various tools and **label** them using the text tool. The online instructions will explain how to create these shapes.

(1 mark each, ½ mark deduction for each shape that is not labelled)

- a rectangle
- a perfect square
- a rectangle with rounded corner with a 10 mm radius
- an oval using the ellipse tool
- a perfect circle
- a five sided polygon
- an equilateral triangle
- an red obtuse triangle
- a blue acute triangle
- a jagged line using bezier curves (pen tool)

1   2   3   4   5   6   7   8   9   10

Application

Pictogram

A pictogram is a combination of shapes that create a final image.

• Using a combination of the various tools, create a pictogram of an 80s style boom box with detaching speakers.

• The boom box will consist of these four pieces:

• two speakers (identical), the central component, and a handle

• Colour each individual shape, whether it is just plain white, a colour, or a texture.

• Group each part individually, so you can move the speakers, handle, or centre component separately.

• To create identical speakers, make one speaker, group it together, then copy and paste it.

• Group the objects by selecting them; then go to the menu and select **Object > Group**

• Have all 4 parts butt up against each other without overlapping.

Pictogram	**Level One**	**Level Two**	**Level Three**	**Level Four**
Four parts are detailed; Each part is grouped; Boombox is assembled with each part butted up against each other	10 11	12 13	14 15	16 18 20

Iroquois Ridge Logo

• Accurately create a coloured rendition of the Iroquois Ridge logo.

• Group all three objects together when you are finished.

Iroquois Ridge Logo	**Level One**	**Level Two**	**Level Three**	**Level Four**
Logo accurately rendered; An appropriate number of anchor points used	10 11	12 13	14 15	16 18 20

Fridge Art

• Using the pen tool recreate either the pig, the dolphin, or the seal

• You are to take some artistic licence with the images that you are copying making the contour outside shape more smooth, while paying attention to the detail of the image.

• You are to create the necessary details like the pig's hoofs and the seal's whiskers.

Fridge Art	**Level One**	**Level Two**	**Level Three**	**Level Four**
Appropriate number of anchor points used*; All lines between anchor points are curved; Image resembles fridge art with artistic modification	10 11	12 13	14 15	16 18 20

* An appropriate amount of anchor points means enough anchor points to create the detail of an image; and the fewest number of anchor points to create a contour. For example, a contoured image with 3 anchor points is better than the same contour with 7 anchor points.

Letter Re-creation

- Using the pen tool recreate a letter from the font families that are posted online

Letter Re-creation	Level One	Level Two	Level Three	Level Four
Appropriate number of anchor points used*; All lines between anchor points are curved; Accurately resembles the original letter	10 11	12 13	14 15	16 18 20

* An appropriate amount of anchor points means enough anchor points to create the detail of an image; and the fewest number of anchor points to create a contour. For example, a contoured image with 3 anchor points is better than the same contour with 7 anchor points.

Clipping Path

- Using the pen tool in PhotoShop, apply a clipping path around one of the images found online

Clipping Path	Level One	Level Two	Level Three	Level Four
Clipping path around the entire foreground image is accurate; All line in between the anchor points are curved where necessary; Number of anchor point around the clipping path are minimal; Properly save as an EPS image with 8 bit colour preview	10 11	12 13	14 15	16 18 20

Revised March 3, 2013