

Name: Date:

Year 4 Catch the Apples Lesson 1

Resources - Scratch 2 application, pencil, Y4L1 PR Folder, Y4L1 Pupil Workbook (hardcopy if desired), Y4L1 TR Folder, Whiteboard/projector (to show video and demonstrate the Scratch application)

Vocabulary-User Interface, Sprite List, Stage, Script Area, Motion Blocks-move 10 steps, go to x: y:,,
Control Block-when green flag clicked, key space pressed, forever, stop all, Sensing Block-key spaced pressed,

Lesson Objectives -

• Target-To create sprites and backgrounds from picture images

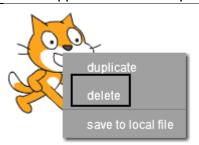


Start Scratch 2 offline or online- Navigate to your pupil folder. Open *Y4L1* Catch the Apples Demo

Play the demo and try to catch the apples in the cart. Each time you catch an apple you score 1 point. You only have 35 seconds to score 30 points

T1. You can create sprites and backgrounds from any picture. Inside your pupil folder are 3 images (png files) that you are going to import into your Scratch project.

Start Scratch \rightarrow File \rightarrow Save As \rightarrow Navigate to your Named Folder \rightarrow Y4L1 Pupil Folder \rightarrow Name the file "Y4L1 Apples+Initials" If you are working with a partner put both your initials.

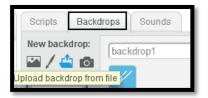


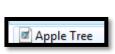


00 8 H

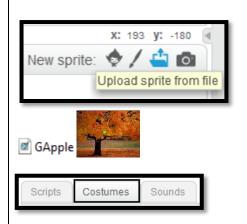
T2. Right click on the cat sprite on the stage and select delete.

Select the Stage \rightarrow Select the Background Tab Select upload backdrop from file \rightarrow Navigate to Your Named Folder \rightarrow Y4L1 Pupil Folder \rightarrow Select the Apple Tree image, click OK









T3. Select upload sprite from file

Navigate to \rightarrow **Y4L1** Pupil Folder \rightarrow Select the GApple image, click OK. The apple appears on the stage. Select the GApple thumbnail. Select the Costume Tab. Select the

minus zoom then convert to vector.

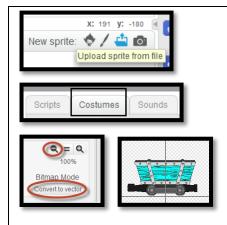
Select costume center. Make sure the lines go

through the exact centre of the apple.









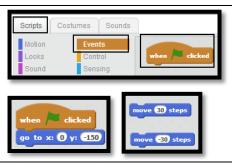
T4. Insert a Cart sprite.

Navigate to Your Named Folder → Y4L1 Pupil Folder → Select the Cart image, click OK. A very large image appears on screen. Select the costume tab. We are going to convert the bitmap image to a vector image as it will shrink with a better image quality.

Select the zoom – button to change the image to 100% Select Convert to vector.

Select the cart in the Paint Editor. Using the corner make the image smaller to approx. 130 x 68

Drag the crosshair just underneath the wheels of the truck (x axis) and the y axis in the centre of the truck. Click OK.



T5. Select the Scripts tab. Drag a when green flag clicked from the **Events Palette** into the script area. Select the **Motion** tab and drag a go to \times 0 y -150. Click on the numbers to change them. Drag out 2 move 10 steps and change the numbers as shown. -30 will make the cart go left 30 steps along the x axis and 30 will make the cart go right 30 steps.



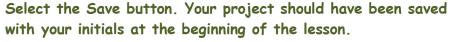
to x: 0 y: -150

T6 Drag out a forever loop and also 2 if then blocks from the Control Palette

Snap the blocks together as shown.

From the Sensing Palate. Drag 2 key space pressed blocks onto the script area. Change to key right arrow pressed. Change to key left arrow pressed

Slot the key right arrow pressed into the 'if then block'. Slot the key left arrow pressed into the 'if then block'



"Y4L1 Apples+Initials" If you are worried you have not saved the files, just select save as and save it again.

Test your work and debug

hen 🖊 clicked go to x: 0 y: -150 move 30 steps key left arrow ▼ pressed? then move -30 steps

End of Lesson Y4L1