

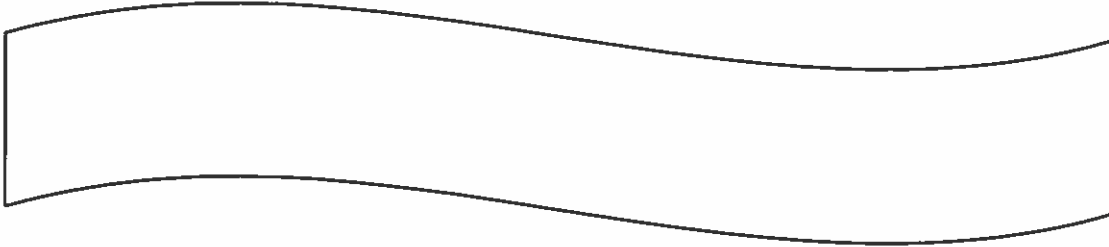


Robot Theater: Where Shakespeare Comes to Life

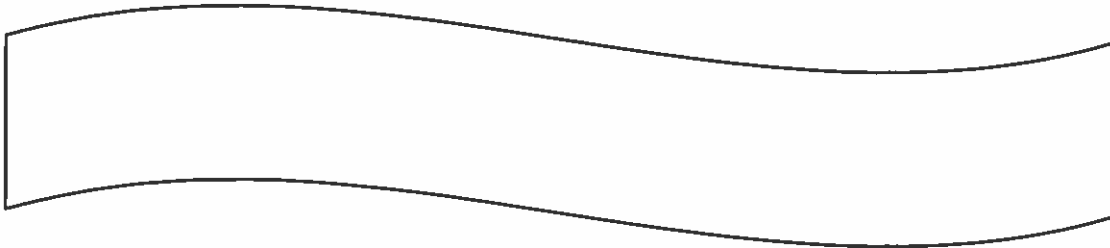
Planning Document

Analysis and Planning

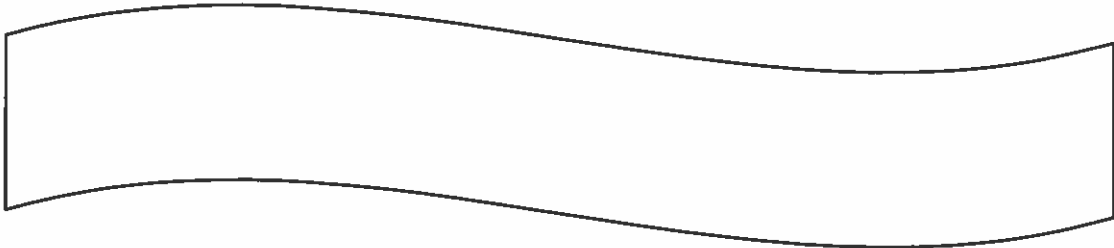
Step 1 – Copy a portion of your selection’s text



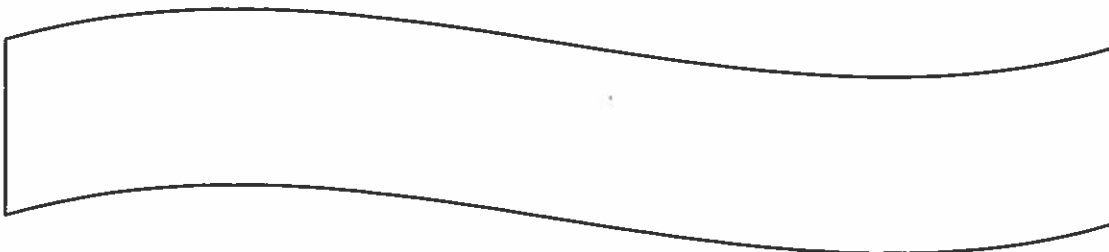
Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

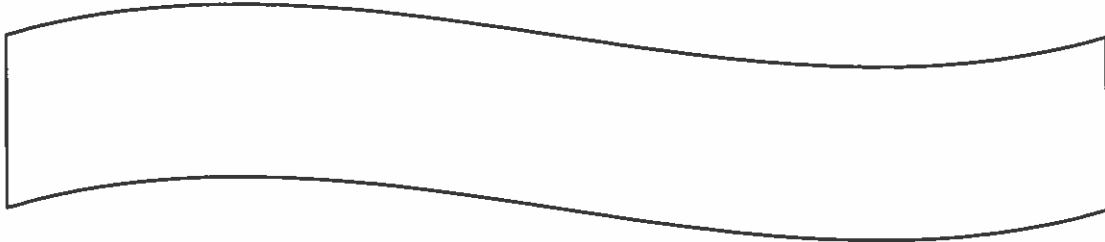


Step 4 – Plan for using robotics for this text



Analysis and Planning

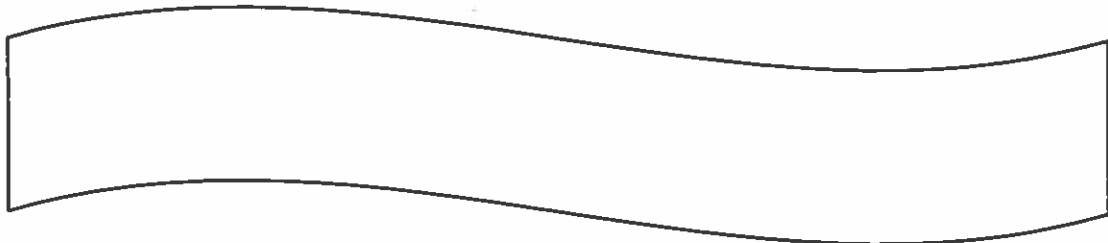
Step 1 – Copy a portion of your selection’s text



Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

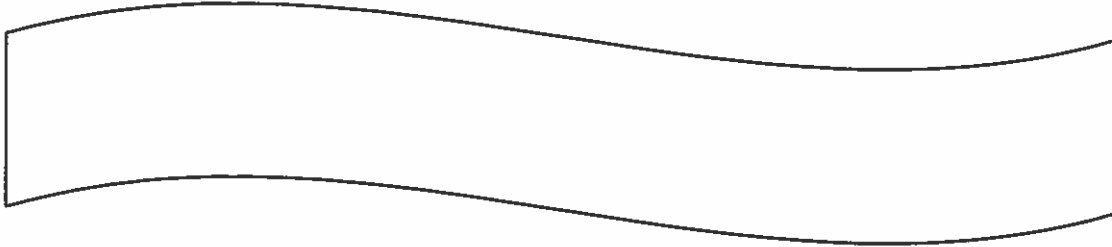


Step 4 – Plan for using robotics for this text

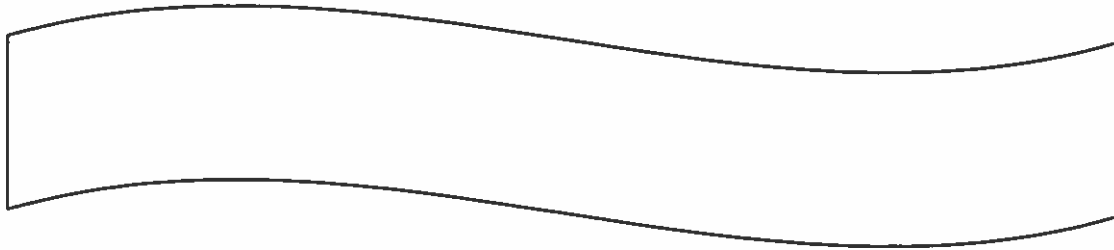


Analysis and Planning

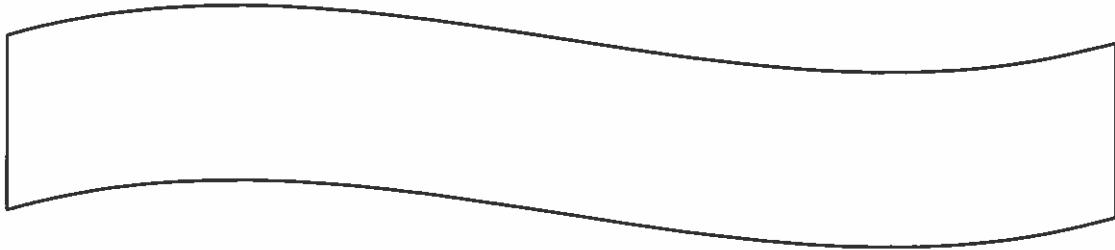
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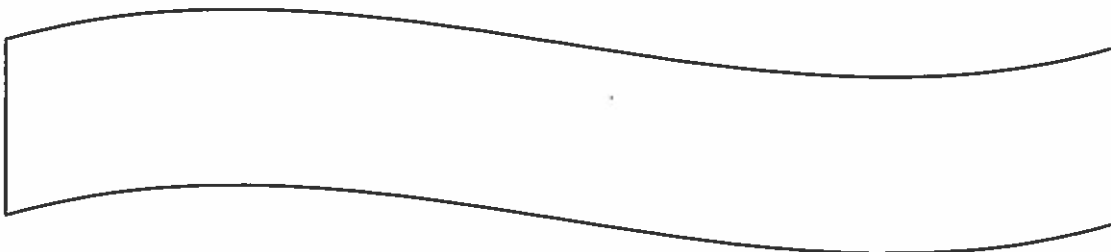
Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

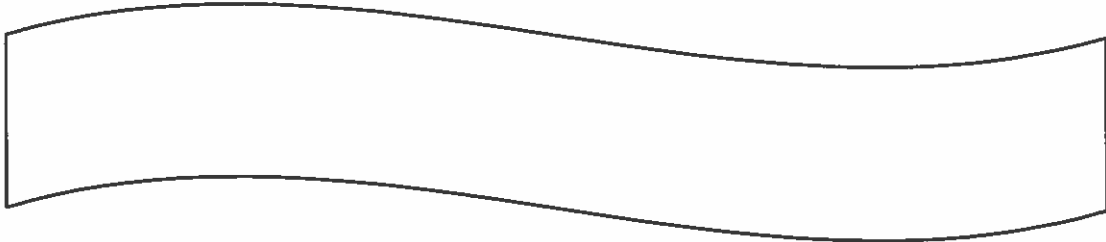


Step 4 – Plan for using robotics for this text



Analysis and Planning

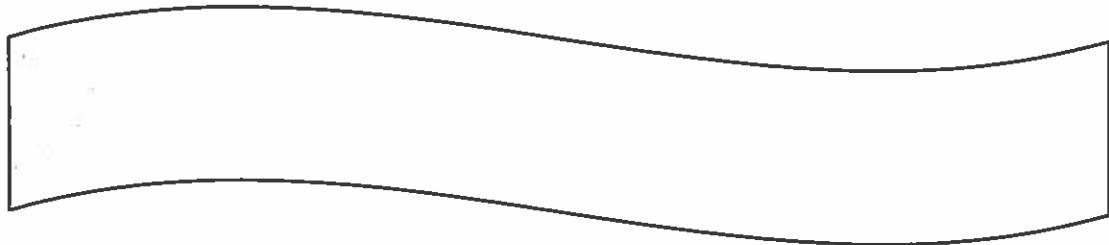
Step 1 – Copy a portion of your selection’s text



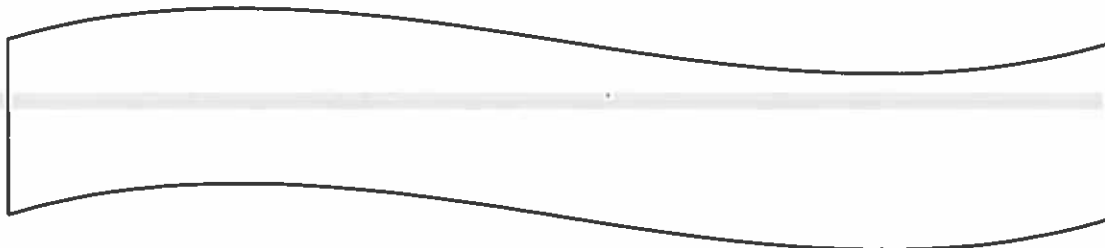
Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

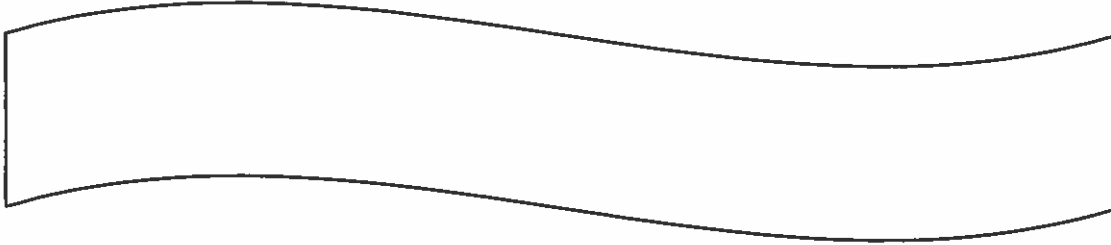


Step 4 – Plan for using robotics for this text

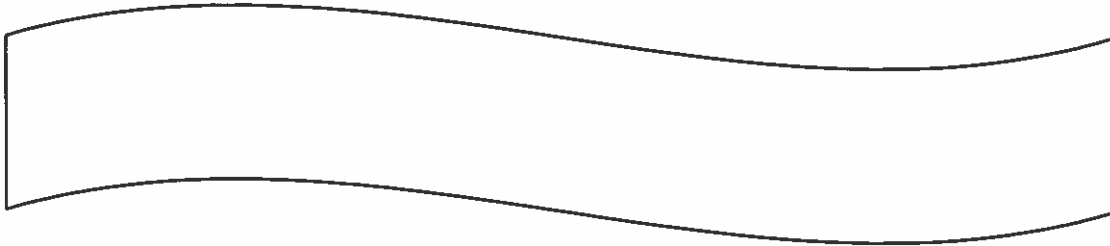


Analysis and Planning

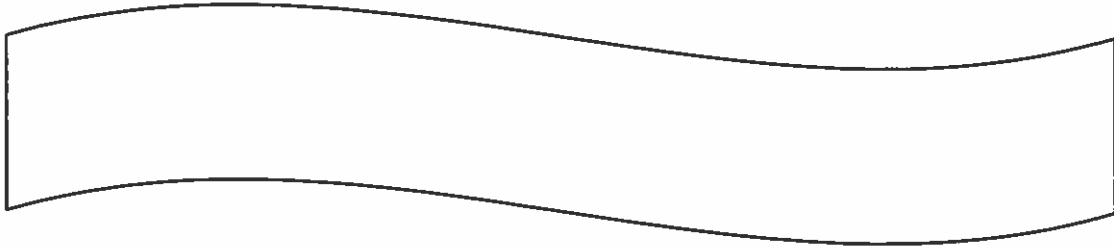
Step 1 – Copy a portion of your selection’s text



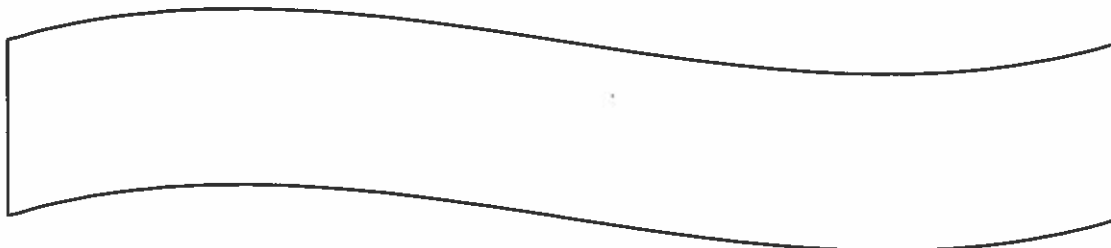
Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

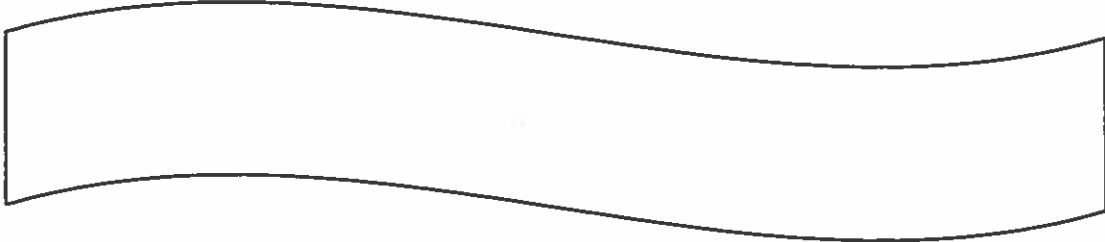


Step 4 – Plan for using robotics for this text



Analysis and Planning


Step 1 – Copy a portion of your selection’s text



Step 2 – Explain the text’s meaning in your own words



Step 3 – Plan for symbolism and art for this text

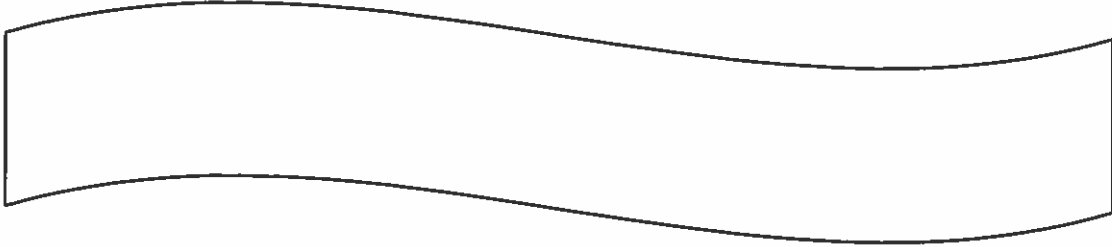


Step 4 – Plan for using robotics for this text

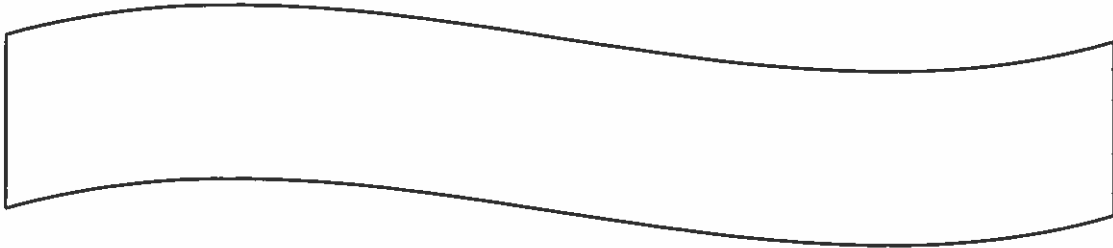


Analysis and Planning

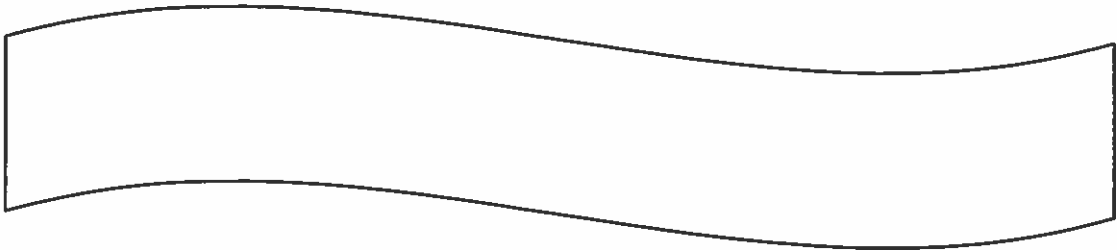
Step 1 – Copy a portion of your selection’s text

A large, empty rectangular box with wavy top and bottom edges, intended for copying a portion of the selected text.

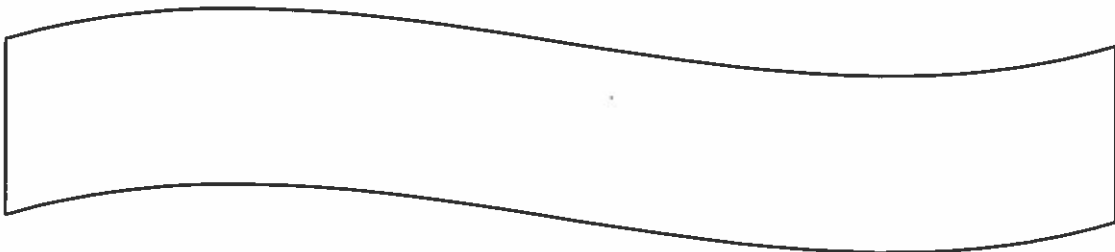
Step 2 – Explain the text’s meaning in your own words

A large, empty rectangular box with wavy top and bottom edges, intended for explaining the text's meaning in your own words.

Step 3 – Plan for symbolism and art for this text

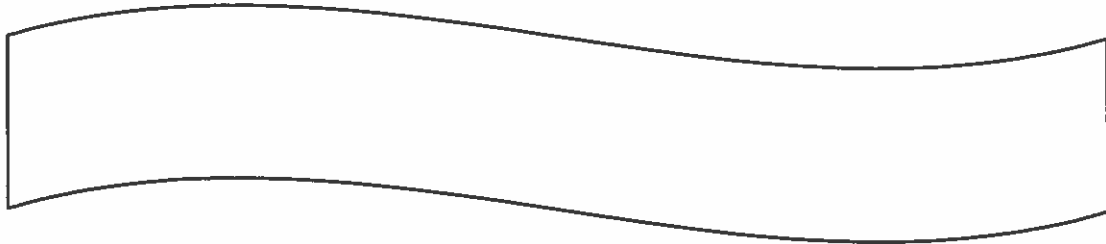
A large, empty rectangular box with wavy top and bottom edges, intended for planning symbolism and art for the text.

Step 4 – Plan for using robotics for this text

A large, empty rectangular box with wavy top and bottom edges, intended for planning the use of robotics for the text.

Analysis and Planning

Step 1 – Copy a portion of your selection’s text



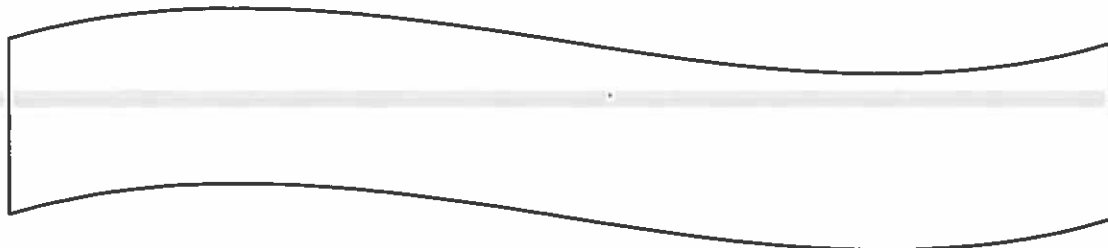
Step 2 – Explain the text’s meaning in your own words

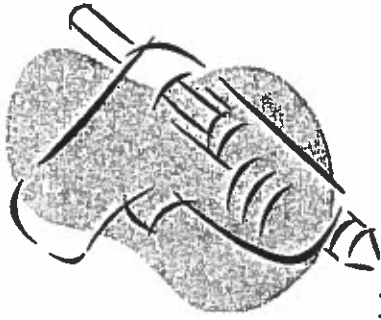


Step 3 – Plan for symbolism and art for this text



Step 4 – Plan for using robotics for this text





THINGS TO BUILD OR CRAFT

What _____	Who _____
What _____	Who _____
What _____	Who _____
What _____	Who _____

Date: _____



STEP 1: DEFINE THE PROBLEM OR GOAL

What do you want your robot to look like?

What do you want your robot to be able to do?

Do you have any other goals for your robot?

Date: _____



STEP 2: IDENTIFY CRITERIA AND CONSTRAINTS

What are your criteria for success? How will you decide if the robot meets your goals?

What constraints limit your design?

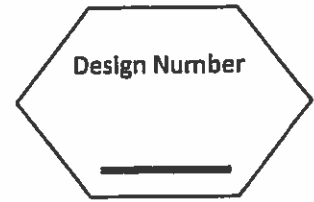
Assignment Requirements:

Materials:

Time:

Other:

Date: _____



STEP 4: DEVELOP DESIGN-ROBOT PLAN

What will your robot look like? What materials will you need?

A large, rounded rectangular area with a thin black border, intended for students to draw their robot design and list the materials they need. The area is currently blank.

Date: _____

Develop

Design Number

STEP 4: DEVELOP DESIGN-PROGRAM STORYBOARD

Expression # _____

Expression # _____

Expression # _____

Expression # _____

Expression # _____

Expression # _____

Arts & Bots Sensor Worksheet

Your robot can "choose" between two actions depending on an environmental value using a sensor.

Step 1 Choose Sensor

Sensor Type	Less Action	More Action
Light Sensor	Dark	Bright
Temperature Sensor	Cold	Warm
Distance Sensor	Near	Far
Sound Sensor	Quiet	Loud
Potentiometer	Counterclockwise	Clockwise

Step 2 Describe Actions

When _____, LESS ACTION I want my robot to....	When _____, MORE ACTION I want my robot to ...
--	--

Step 3 Measure the Values

Using the CREATE Lab Visual Programmer, measure the values of the sensor that you want to trigger each action. Mark the values on the bar below with an "L" for the *less action* and "M" for the *more action*.



Step 4 Choose the Threshold

On the bar above, mark a threshold or "decision value" *halfway* between the "L" and "M" marks using a "Λ".

Step 5 Program and Test

In the CREATE Lab Visual Programmer Sequence Builder, use the sensor structure to set the threshold for the two actions. Put the Expressions for the *less action* into the right side track and for the *more action* into the left side track.

Run your program and test to see if your robot does what you planned.

Audacity Instructions

The student in charge of creating the voice files should get a separate computer.

You should login to the computer as yourself.

Go to "All Program" and find "Audacity"

Open audacity.

The red button will allow you to record.

Go to a quiet place by yourself.

Record yourself reading the first chunk of poetry. (Everyone will chunk their poem differently.)

Use the square to stop.

Use the arrow to listen to yourself.

If it is error free, then go to the "File" menu and select "Export".

Name the file something that you will remember what part of the poem it is.

Make sure that the file type is "WAV" and save the file to the desktop.

On the 2nd pop-up screen, just select "ok".

You will transfer your files to a flash drive when you are done recording.

If the bell is soon to ring and you are not done and do not have a flash drive, make sure that you place the file in the "H drive". You will lose all files on the desktop when the machine shuts down.

The picture below shows Audacity with a recently recorded file.

