Student Name

STUDENT WORKSHEET #1: Develop an Animation Plan

*complete and get your teacher's approval by the end of Session 6

Choose an earlier portrait in one of the three portrait styles: Chuck Close-style grid portrait, oil pastel portrait, or cartoon caricature.

Sketch your animation plan in your journal and label the parts that move. Put an X on the places you will need to cut holes.

Moving Part #1	
Moving Part #2	
Moving Part #3	
Student Checklist	Teacher Checklist
Choose a portrait style	Is the project workable in time allowed?
Plan for 2-3 moving parts	Will motors be attached near the center of
Share your idea with a classmate	each moving part?
	Are 2-3 motors used?

STUDENT WORKSHEET #2: Complete Your Portrait

*complete and get your teacher's approval and complete by the end of Session 7

Complete an earlier portrait based on your animation plan in one of the three portrait styles: Chuck Close-style grid portrait, oil pastel portrait, or cartoon caricature.

Create moving parts in the same medium you created your portrait.

Be sure your cords will reach (plug motor cords into the ABC plugs on the robot, and arrange the motors and brain on the board).

Label where all the motors and the NXT brain will be placed by tracing them onto the back side of your foam board and marking where holes need to be cut.

Student Checklist	Teacher Checklist	
Finish drawing your portrait	Check cord lengths	
Draw and color the moving parts	Be sure the motors will be attached near the center of each moving part	
Check cord lengthMark foamboard for robot parts	Troubleshoot and adjust animation plans	
	Confirm that cutting holes are clearly marked	
	Cut holes in foamboard	

Student Checklist	Teacher Checklist	
Once you have motors and the brain attact the last step: programming your animatro	ched to the foam board and the design assemble onic with the group!	d, you will start
Attach the moving parts to the motors. T	This will take some creativity!	
Attach the motors and brain to the foamb	board with LEGO pieces and tape.	
Glue your portrait to the foamboard.		
*student worksheet #3: Mount *complete by the end of Session 8	the Robotic Parts	

____ Tape the motors and brain

____ Attach the moving parts to motors

Student Name _____

STUDENT WORKSHEET #4: Program Your Animations

Before you begin the programming exercises, write down which motor plug (A, B or C) each moving part is plugged into.

Part of the portrait	Port (circle one)	Movement (choose one)	Draw a circle showing how far the part will turn/move	Unit (choose one)
	A B C	Spin in circlesSpin half way aroundWiggle a littleOther (describe below)		RotationsDegreesSeconds
	A B C	Spin in circles Spin half way around Wiggle a little Other (describe below)		RotationsDegreesSeconds
	A B C	Spin in circles Spin half way around Wiggle a little Other (describe below)		RotationsDegreesSeconds

STUDENT WORKSHEET #	5: Add Sensors		
*for advanced students only			
If you're ready for an addition	al challenge, add	sensors to your project. For	or example, when the button is
pushed, the eyes could move.	Below draw a lin	e from the motors to the se	ensors you'd like to add.
Motor A controls	and will	be controlled by the	sensor.
			th (button), sound or ultrasonic
Motor B controls	and will	be controlled by the	sensor.
Portrait Part (eye,	nose, etc)	Choose one: light, touc	ch (button), sound or ultrasonic
Motor C controls	and will	be controlled by the	sensor
Motor C controls	and will	toc controlled by the	SCHSUL

Portrait Part (eye, nose, etc) Choose one: light, touch (button), sound or ultrasonic

Student Name _____

^{*} You may only use each sensor type once.

STUDENT WORKSHEET #6: Preparing the Artist Statement

Look back in your journal and reflect on your intentions for your self portrait and the reasons behind your animation decisions. Be sure your write about how the portrait and animations work together to reveal something important about your personal identity.

Sample Artist Statement

Personal identity is not just about the self, it *is* the self. When I really think honestly about myself, I consider who I am and who I want to be.

I am an artist. I am also a wife, daughter, and friend.

I want to be a bright smile in my loved ones' day, and I like to express myself through my words. So, my mouth is a powerful part of who I am and who I want to be. I want to offer the world smiles, love, and a little comedy.

But I am much more complex than what you see. My eyebrows point to the mysterious me, the parts nobody else knows, and I'll keep them to myself!

Begin your own artist statement by answering the following questions in your journal.

- 1. What do you like most about your final portrait?
- 2. Why did you use this portrait for your project instead of the others you made?
- 3. What does the portrait tell other people about who you are or who you want to become?
- 4. Create an "I am" list like the one in the sample artist statement above. What aspects of "you" does your portrait show?
- 5. Do you think your portrait and its animations are funny, serious, or something else?
- 6. What do the animations say about your personality or the way you look?
- 7. Do you think your final animated portrait show people how you really look, how you want to look, or how other people see you? Explain why.