2.1 Lesson plan 4 Outline	
Lesson plan 4 topic	Initial Flight Planning
Lesson plan 4 objectives	Students will be able to determine True Course and magnetic
	course for a planned, no wind flight using an aviation Plotter
Anticipatory set or lesson	In your journal, explain the difference between Magnetic North
opening (to activate	and True North. Use these terms:
students` prior learning or	North Pole
draw student interest or	Magnetic North Pole
involvement)	Isogonic Lines
Direct Instruction	The lesson will begin with passing out aviation plotters.
	Students will retrieve their New York Sectional Chart for use in
	this lesson. Next, the teacher will show and explain a
	PowerPoint presentation on the use of technical layout und use
	of the Plotter. Students will then watch two videos on the
	practical use of the Plotter.
Guided Practice	Direct instruction with the use of an Elmo will be used to go
	through step-by-step instruction for a planned flight from
	Norwood airport to Turner's Fall airport.
Independent	Each student will need a large desk area to work on the flight
Practice/Differentiated	plan plot. The teacher will circulate for independent help, as
Activities	well as use advanced students to help with differentiated
	instruction
Reflection on employability	Flight planning is the essential first step in aerial navigation.
skills	Air Traffic Controllers and professional pilots need to master
	these skills in order to continue their career pursuit.
Lesson Closure	In your journal, explain why you chose certain check point over
	other possible check points.
Summative/end of lesson	Tomorrow's lesson will be to create a "no wind" flight plan.
assessment	Students will need to use today's lesson as the basis for
D.C. /D.	tomorrow's work product
References / Resources /	You Tube links:
Teacher Preparation	https://www.youtube.com/watch?v=pRJaU0y5RHY
	https://www.youtube.com/watch?v=9eJUioUWkPc
	Attached Powerpoint, plotters, pencils and Sectional Charts
	Anached Fowerpoint, protters, penchs and Sectional Charts

Using the Plotter

1.	What are the three main uses of a Plotter?	
2.	How long is a Statute Mile?	
3.	How long is a Nautical Mile?	
Plotti	ing your course from Norwood Municipal Airport to Turner's Falls Airport	
1.	Using your plotter as a straight edge, draw a line with a pencil from Norwood to Turner's Falls.	
2.	. Align the small circle in the middle of the plotter to the nearest line of longitude.	
3.	. Record the westerly course. The number must be between 181 and 359.	
4.	Find the Magnetic Variation by reading it on the nearest Isogonic line. It will be a dashed line at an angle to the line of longitude. There are four of these on your chart. Which of the four will you use? Hint – it will be a number followed by the degrees symbol (°).	
5.	Now let's do some calculations:	
	True Course	
	Magnetic Variation	
	Magnetic Course	
6.	Choose two different airports and plot your course.	
	Departure Airport Destination Airport	
	True Course	
	Magnetic Variation	
	Magnetic Course	
	Departure Airport Destination Airport	
	True Course	
	Magnetic Variation	
	Magnetic Course	