Detailed Schedule

	Due Date	Development Plan	Test and Demonstration Plan		
Jan	30	 Draft Webpages Navbar, Home Page Lesson Page Manipulator Page Creator Page Explore Page About/Contact us Page User Profile Page 	The user will be able to navigate through prototypes of the major pages of the website		
Feb	6	 Continue making draft webpages Account Creation Page Login Page (Modal?) Expression Tree Data Representation Define data layout/class hierarchy Expression Tree Rendering Server Rules for setting	 The user will be able to view a prototyped rendered expression tree in the manipulation window Documentation will be written which defines the algebraic actions and their meanings. Initial implementations of these objects will be created. User will be able to navigate the created pages of the website sent by a server on localhost 		
	13	 Expression Tree Rendering Define data layout/class hierarchy Algebraic Action handling Expression Tree User Interaction Expression Manipulator Page/UI Server Error Handling Research and handling of security issues 	 Basic algebraic actions will be implemented, and unit tests will be written which test applying the actions to expression trees. JSON serialization/deserialization will be implemented on expression trees. Some user interaction will be supported for manipulating expression trees. 		

	20	 Server Set-up series of dummy files for website to use Algebraic Action handling Expression Tree User Interaction Expression Manipulator Page/UI 	 Expression trees will be more manipulatable More algebraic actions will be implemented Users can manipulate pre-made Expression Trees
	27	 Algebraic Action handling Expression Tree User Interaction Expression Manipulator Page/UI Database Define Schema Rules for setting up Set up AI Determining Heuristic Skeleton search function 	 Expression trees will have all the basic algebraic actions implemented via the UI. All algebraic actions will be implemented and integrated into the manipulation page. Finished unit tests written. Unit tests for AI Solver will be implemented
Mar	Break	pag.	
	13	 Set up AI Work on Search function Problem Generator Log-in System User Accounts History Implementation Use JS to put DB data on web pages Database Database wrapper class Storage Handling 	 Initial implementation of History bar will be done. Some user-created problems/lessons can be sent from the server/database to the website. Initial User Account system will be done Unit tests for Problem Generator implemented Unit tests for Database adding and reading files will be implemented

	20	 Database Delete Handling Set up AI Work on search function Problem Generator Log-in System Google Sign-In implementation User Accounts Bare bones implementation History Implementation Use JS to put DB data on web pages Expression Creator Page/UI 	 History bar will be implemented and integrated into manipulator page The website will display user-created problems and lessons which it gets from the server/database Initial implementation of expression creation page will be done. Users can login with Google Users can make problems of varying difficulty. Preliminary AI will be implemented 				
	27	Set up AI	 Users can choose a difficulty when using the Problem Generator Users can view stored data associated with their account Al search capabilities will be improved 				
Apr	3	 Expression Creator Page/UI Tutorials Implementation Spiffy up webpage design (CSS) Finalize Website design Set up AI Complete Search function Deployment Research options 	 Expression creation page will be done. Initial Tutorial pages will be done Al search capabilities will be improved Web page design will be updated 				
	10	● Tutorials ○ Design of Content	 User can ask for help on the manipulation page and receive an answer Al will be finalized 				

	 Spiffy up webpage design (CSS) Finalize Website design Work on AI Testing/Training Deployment Set up 	Web page design will be updated Preliminary tutorials will be completed
17	 Tutorials Testing and Review Spiffy up webpage design (CSS) Finalize Website design Deployment Testing 	 Users can use the tutorial system Website is deployed and viewable
24	 Tutorials Spiffy up webpage design (CSS) Finalize Website design Deployment Bug fixes 	Web page design will be finalized Website is finalized