## Criterion B - Record of Tasks

Task Number	Planned Action	Planned Outcome	Time Estimate	Target completion date	Criterion
1	Consultation and brainstorming	Determine project and rationale for solution	45 min	10/2/24	A
2	Create mockups and class diagrams	Whole project has a skeleton to be built around	2 hours	10/20/24	В
3	Design kinematics system	Planned out all the forces that will act on the masspoints	90 min	11/1/24	С
4	Design region system	Planned out how the regions will put forces on masspoints	1hr	11/6/24	С
5	Self-unintersec tion algorithm	Planned out algorithm that will stop regions from colliding with themselves	3 hours	11/20/24	С
6	Kinematics	Masspoints use forces to move	1 hour	12/1/24	D
7	Spring forces	Masspoints move from springs and damping	2 hours	12/19/24	D
8	Regions	Multiple masspoints together draw a region	1 hour	1/20/25	D
9	Region forces	Regions create pressure forces on their masspoints	5 hours	2/10/25	D
10	Ю	Program can read outside files for	2 hours	2/18/25	D

\*ktc304\* -- Animated Cartogram

		positions and indices			
11	Gather points and population data	Masspoints and regions read from files to get positions and indices	2 hours	3/1/25	D
12	Countries	Countries control multiple regions and change population	1 hour	3/28/25	D
13	GUI Elements	Add switches and a slider to control the year of the simulation	1 hour	3/31/25	D
14	Graphics	Each masspoint and region will display with unique colors dynamically	6 hours	4/12/25	D
15	Testing and debugging	The simulation is stable and responsive to input	8 hours	4/17/25	Е
16	Create and export video	Create a video to show off the fully-fledged cartogram	20 min	4/18/25	D