Rubric for a Behavior-over-time Graph

	Change Variable (y-axis)	Time Boundary (x-axis)	Change Representation	Explanation of a Graph
4	• Identifies one or more significant, specific quantitative (e.g. population) or qualitative (e.g. happiness) components that change over time in the system • Identifies and descriptively labels an appropriate comparative change scale (e.g. glad, happy, ecstatic)	• Identifies start and end time boundaries within which the variable changes and includes a boundary for projected change based on current trends • Identifies content-appropriate time units (e.g. hours, years, chapters) • Represents time units in a learner-appropriate manner (e.g. pictures)	Represents continuous pattern of change/trend of a variable over time using a line on a graph in one or more of the following ways: • Visibly distinguishes on the line graph the projected pattern of change/trend from that which has occurred • Uses referenced, separate lines on a graph to represent related trends	Explains a variable's continuous pattern of change/trend over a specified period of time and does one or more of the following: • Explains a projected behavior based on current trends • Explains the differences between changes in qualitative (e.g. happiness) vs. quantitative (e.g. population) variables that change over time • Explains the difference between changes in accumulations over time and the rates at which they change
3	• Identifies a significant, specific quantitative (e.g. population) or qualitative (e.g. happiness) component that changes over time in the system • Identifies an appropriate comparative change scale (e.g. low, medium, high)	• Identifies the time boundary within which the variable's change starts and ends • Identifies content-appropriate time units (e.g. hours, years, chapters, etc.)	Represents continuous pattern of change/trend of a variable over time using a line on a graph	Explains a variable's continuous pattern of change/trend over a specified period of time
2	• Identifies a general rather than specific component that changes over time in the system (e.g. feelings rather than happiness) • Identifies an unclear comparative change scale that also may have labels representing multiple variables (e.g. sad, angry, happy)	• Identifies a boundary that is too short or too long • Identifies time units that do not match the time during which the variable has changed	Represents continuous pattern of change/trend of a variable over time as event-based using dots connected by a line on a graph	Explains a variable's pattern of change/trend as a series of individual events that are connected in time
1	• Identifies a component that is an individual event rather than one that changes over time (e.g. changes clothes) • Identifies a comparative change scale that does not encompass change of the component	• Does not include a time boundary • Does not include any units on the graph	Represents continuous pattern of change of a variable over time as event-based using unconnected dots on a graph	Explains a variable's change as a series of individual events that are not connected in time and/or that are not related to the variable