Language for Kinematics

- Describing Motion with Words.
- Describing Motion with Diagrams.
- Describing Motion with Equations
- Describing Motion with Graphs.
 - Position vs. Time Graphs
 - Velocity vs. Time Graphs

Linear Motion

constant speed (a = 0)

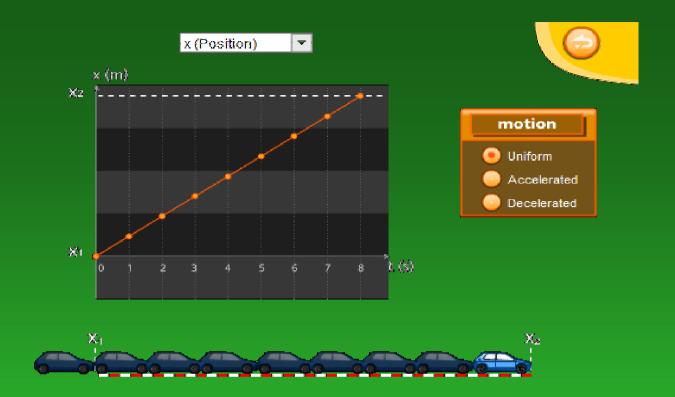
Uniform Motion

constant acceleration (a≠0)

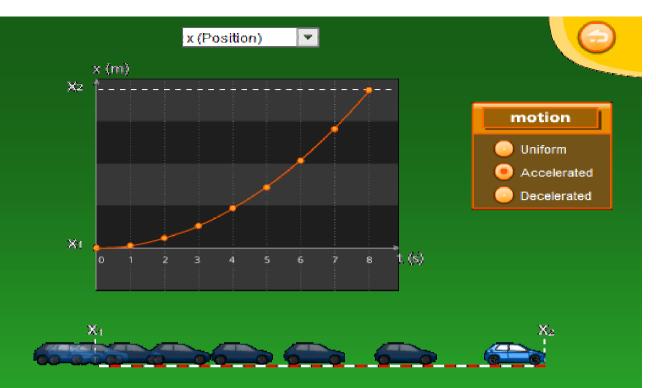
speed increases (a>0)

speed decreases (a<0)

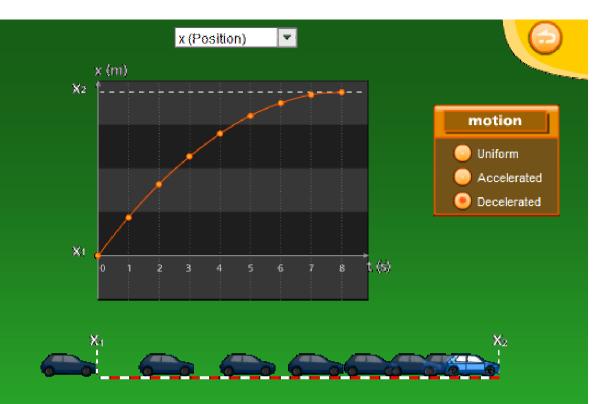
Free Fall (g=9,8m/s²)



- Is there motion?
- What kind of motion? Why?
- Which is the variable and unit in the X axis?
- Which is the variable and unit in the y axis?
- What kind of graph is there? (a straight line or a curve)
- Is the speed constant or changing?
- Is there acceleration? Why?



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This is a satellite falling free down to the Earth.



- Is there motion?
- What kind of motion? Why?
- Is the speed constant or changing?
- Is there acceleration? Why?
- Write down the conclusion of the plenary discussion: