



CLIL activity: *Visual dictation* *Kinematics graphs*

• Objectives

1. To describe a graph properly
2. To know different shapes of graphs according to the type of motion
3. To practice adverbs & adjectives
4. To practice relative clauses

• Vocabulary / structures

1. **Kinematics vocabulary** (e.g: speed, acceleration, position, ...)
2. **Description vocabulary** (e.g. dramatically, steadily, slightly..)

In order to develop the activity students can use the following structures:

3. **Relative clauses:** A graph which has a great slope represents...

• Procedure

These is a review activity for helping students to remember the graphs in Kinematics:

Classroom activity

- To split the group into three or four different teams
- To hand out the worksheet to each team
- A student of the first team must describe the first graph, using the key vocabulary included in the worksheet or suggested by the language assistant and draw the velocity vs. time graph. The language assistant must correct pronuntiation, stress, etc.. Then a student of the second team continues until all the graphs have been described
- Now competiton starts: First group describes a motion and ask the other teams to draw their position vs. time and velocity vs. time graphs:

"A car starts at rest and accelerates to a great speed for a short interval of time. This car is moving towards the origin of the frame of reference"

- The team that draws the graphs correctly gets a point if everybody agree with them. When the graphs are incorrect, another team has to justify the suitable graph and get the point. The team which get the greatest number of points win the competition.



Kinematics graphs

- Describe the particle's motion using the following words /structures:
towards the origin - away from / faster - slower / speed up - slow down /speed remains constant /uniform motion /uniformly accelerated/ dramatically, sharply, steadily, gradually, slightly increase -decrease
- Plot the graph velocity-time

A	<p style="text-align: center;">position time</p>	<p>The particle moves</p> <p>The motion is..... because.....</p>	
B	<p style="text-align: center;">position time</p>	<p>The particle moves</p> <p>The motion is..... because.....</p>	
C	<p style="text-align: center;">position time</p>	<p>The particle moves</p> <p>The motion is..... because.....</p>	
D	<p style="text-align: center;">position time</p>	<p>The particle moves</p> <p>The motion is..... Because.....</p>	
E	<p style="text-align: center;">position time</p>	<p>The particle moves</p> <p>The motion is..... Because.....</p>	