INTERACTIVE WORKSHOP

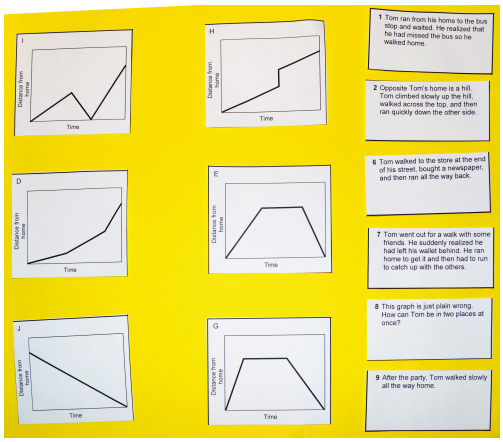
Home and Away

Topic: Distance-Time Graphs

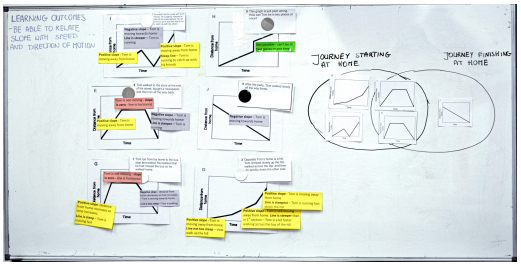
Students associate real world motion scenarios with their corresponding Distance–Time graphs by relating the slopes of line segments with speed and direction of motion.

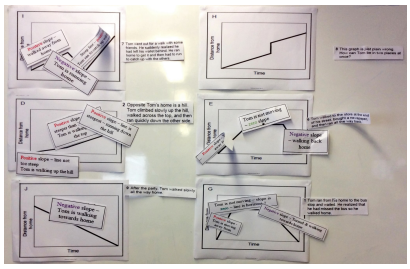
Year Group: 1st Year
Level: Mixed Ability

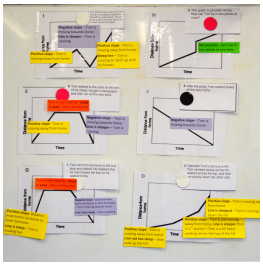
Presenting the Problem



The Board Plan







Prior Knowledge & Posing the Task
10 minutes

→

Students working on the problem
10 minutes

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Presentation of Solutions & Ceardaíocht
15 minutes

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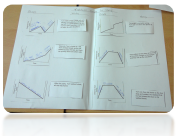
Summing up & Reflection
5 minutes

Reflecting on the Learning



Students enjoyed the card matching activity showing a good understanding of positive & negative slopes. They were able to relate the steepness of a line segment to speed and hence they were able to determine whether Tom, the character from a story, was running, walking or not moving. Students were able to interpret a vertical line segment as an impossible scenario. However, some students tended to associate a negative slope with coming down the hill. Students had no problem with categorising the graphs using a Venn diagram. Using a diagnostic task before and after the lesson provided us with evidence that learning had taken place for all students. As teachers, we were reminded to hold back the answers and let the students do the talking.

Developed by Sinéad Holland, Helen Van Eesbeck and Marie Glynn, with thanks to Joanna Pres-Jennings MDT ansd the students of St Killian's College, New Inn, Co. Galway

To download this lesson plan visit www.projectmaths.ie/mc2017

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