

Template for the description of a Mini-COOL

Rubric	Text	Comments / questions / remarks ...
Title / Name	<u>Domino Chain Reaction</u>	
Short Description	<p>A domino can knock over another domino about 1.5x larger than itself.</p> <p>A chain of dominos of increasing size makes a kind of mechanical chain reaction that starts with a tiny push and knocks down an impressively large domino.</p>	
Support / format Link	https://www.youtube.com/watch?v=y97rBdSYbkg	
Tags / Keywords	#Domino #DominoChainReaction	
Learning outcomes / audience	<p>Small achievements can lead to big results and impacts</p> <p>/</p> <p>(young) entrepreneurs</p>	
Links with the development of the Place-3T	As an excersize for the development of a Places-3t:	

<p>Suggestion of situations where it could be of value</p>	<p>The video can be shown as added value, during brain storm sessions around the preparations and set up of a Places-3t</p>	
<p>Longer description</p> <p>Links with existing supports / contents</p> <p>Links with experience etc.</p>	<p>The Domino Effect</p> <p>The physics of a row of toppling dominoes is discussed. In particular the forces between the falling dominoes are analyzed and with this knowledge, the effect of friction has been incorporated. A set of limiting situations is discussed in detail, such as the limit of thin dominoes, which allows a full and explicit analytical solution. The propagation speed of the domino effect is calculated for various spatial separations. Also a formula is given, which gives explicitly the main dependence of the speed as function of the domino width, height and interspacing.</p> <p>https://arxiv.org/abs/physics/0401018</p>	
<p>Author / Owner</p>	<p>Original idea by Lorne Whitehead, American Journal of Physics, Vol. 51, page 182 (1983)</p>	