A1: To a good approximation, the speed stays unchanged; in reality, it will probably slow down slightly		A	A2:		
Arguments for A1			Arguments for A2		
Question: To a good approximation, does the translational kinetic energy of the train stay unchanged?		4	4 Question: Does train/track system contains a component that exerts external work?		
A1: Yes	A2: Yes		A1: No	A2: No	
Question: Is the speed of the train energy?	proportional to its translation kinetic	5	Question: If there is no external wor remain constant?	rk, then will the energy of the system	
A1: Yes	A2: Yes		A1: Yes	A2: Yes	
Question: In reality, does the transl decrease slightly?	on: In reality, does the translational kinetic energy of the train se slightly?		Question: Is rotational kinetic energy of an object is equal to the moment of inertia times the square of the angular velocity?		
A1: Yes	A2: No		A1: Yes	A2: Yes	
		7	Question: Is the moment of intertia of an object of mass M rotating around a point at distance L equal to ML^2?		
			A1: Yes, for a point mass (for a large object you have to calculate this for all the different parts of the object)	A2: Yes	
		8	Question: When the train switches tracks, does the moment of decrease, resulting in an increase in angular velocity?		
			A1: Yes	A2: Yes	
		9	Question: Is this increase in angular decrease in radius such that the tot		
			A1: Not necessarily	A2: Yes	