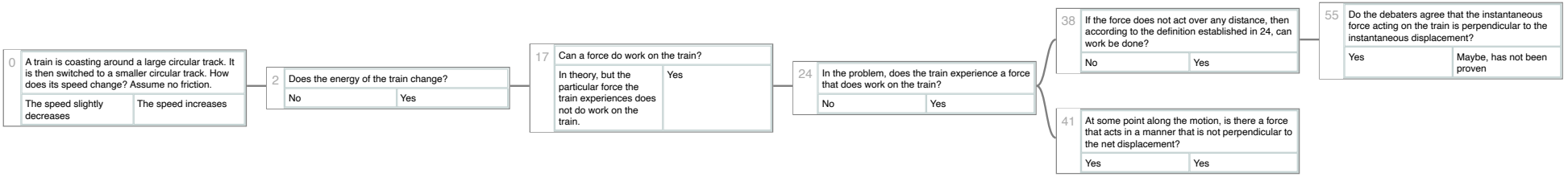
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A train is coasting around a large circular track. It is then switched to a smaller circular track. How does its speed change? Assume no friction.
The speed slightly decreases
The speed increases
2
Does the energy of the train change?
No
Yes
17
Can a force do work on the train?
In theory, but the particular force the train experiences does not do work on the train.
Yes
24
In the problem, does the train experience a force that does work on the train?
No
Yes
38
If the force does not act over any distance, then according to the definition established in 24, can work be done?
No
Yes
55
Do the debaters agree that the instantaneous force acting on the train is perpendicular to the instantaneous displacement?
Yes
Maybe, has not been proven
41
At some point along the motion, is there a force that acts in a manner that is not perpendicular to the net displacement?
Yes
Yes