Mark Mark Switch

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At root

0 Q (H): 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.

H: It decreases slightly

D: It stays the same

Notes

Q: Is the kinetic energy of the train conserved?

H: Yes

D: No

4 Payment: H D None Recurse

Notes

Q: If kinetic energy is conserved, does the speed decrease slightly?

H: Yes

D: Yes

5 Payment: H D None Recurse

Notes

Q: If certain types of energy are conserved, then does the speed remain the same?

H: Depends on the type of energy; if translational kinetic energy is conserved, then yes; however, it is not conserved.

D: Yes

6 Payment: H D None Recurse

Notes

Q: Are those types of energy approximately conserved?

H: Depends on the type of energy; kinetic energy is conserved

D: Yes

8 Payment: H D None Recurse

Notes

9 To: 6 .question

H: What do you mean by "certain types of energy"?

D: I mean things like gravitational potential energy, chemical energy, thermal energy, translational kinetic energy, etc.