

TIMSS Science Public Release Lesson 3 United States

TIMSS Science Public Release Lesson USA 3 Video Clip 1.1

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Time Code	Speaker	Discussion
00:00:03.00	T	OK. Everyone should have the “Pulley Potpourri” sheet out in front of you ...
00:00:06.00	T	the lab sheet.
00:00:08.00	SN	Who thought of that name?
00:00:10.00	T	I did. It’s my lab.
00:00:38.00	T	Shh. We’re gonna get started on the lab today.
00:00:45.00	T	Shh. Folks, I need your attention up here, please.
00:00:50.00	T	I’m glad you guys are having so much fun coloring inside the letters,
00:00:53.00	T	but [if] I could get your attention up here, I would really appreciate it.
00:01:01.00	T	We went over this yesterday. I’m just gonna recap it today because it’s been 24 hours,
00:01:04.00	T	and I know you forgot.
00:01:10.00	T	You’re just gathering three pieces of data from each pulley setup.
00:01:15.00	T	You’re gathering the effort distance, the effort force, and the resistance force.
00:01:22.00	T	As I went over yesterday, you measure the resistance force just by picking the weight up with the scale,
00:01:32.00	T	and you measure the effort distance by using the ruler in centimeters to measure
00:01:35.00	T	how far you pull when you lift the weight by 10 centimeters.
00:01:45.00	T	The resistance distance in every case is 10 centimeters.
00:01:50.00	T	If I can have your attention back here—
00:01:55.00	T	just quickly go over this for the first setup again.
00:01:58.00	T	There are two rulers back at the station.
00:02:06.00	T	You’ll be using both of them at the same time.
00:02:09.00	T	One person is gonna be measuring resistance distance; one person is gonna be measuring
00:02:13.00	T	effort distance.
00:02:15.00	T	So you’ll have one person using the centimeter side of the ruler.
00:02:18.00	T	There’s an inches side.
00:02:22.00	T	Don’t use the inches; use the centimeters.
00:02:24.00	T	They’re gonna be measuring how high the bottom of the weight goes up.
00:02:29.00	T	When it’s at 10 centimeters, that’s as far as you’re going.
00:02:33.00	T	While they’re doing that, the person applying the effort to the simple machine,
00:02:35.00	T	the person pulling on the string,
00:02:42.00	T	is gonna be measuring how far they have moved the string to raise the weight 10
00:02:45.00	T	centimeters.