

TIMSS Science Public Release Lesson 3 United States

TIMSS Science Public Release Lesson USA 3 Video Clip 1.1

(Video ID: 1.1_TIMSS_US_lesson3_c1)

| 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. |