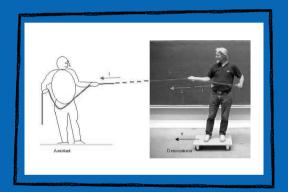


www.tudelft.nl/teachingacademy/themes/primech

DEMONSTRATION



Who is pulling?



Ron Haaksman will be our guest speaker on Jan 26th



Scan the QR code to download the demo

January

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
52							1 New Year's Day
1	2	3	4	5	6	7	8
2	9	10	11	12	13	14	15
3	16	17	18	19	20	21	22
4	23	24	25	26	27	28	29
5	30	31		PRIMECH EVENT	1		

PRIMECK

CAN YOU (20) SOLVE THIS?

February

We have 4 connected gears in a machine. The first and largest has 168 teeth. The others, decreasing in size, have 49, then 32, then 15 teeth.

How many complete turns must the largest of these cogs make before all four return simultaneously to the starting position?



Do you think you got it? Scan de QR code to check the solution!

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
5			1	2	3	4	5
6	6	7	8	9	10	11	12
7	13	14 Valentine's Day	15	16	17	18	19
8	20	21	22	23	24	25	26
9	27	28					



DID YOU KNOW?

Early Babylonian, Egyptian and Hebrew records indicate that length was first measured with the forearm, hand, or finger.

Did you know that around the world different cultures have different numerical systems depending on what parts of the body they use to count?



Scan the QR code to read more about ancient SI units





March

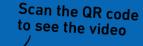


	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
9			1	2	3	4	5
10	6	7	8	9	10	11	12
11	13	14	15	16 PRIMECH EVENT	17	18	19
12	20	21	22	23	24	25	26
13	27	28	29	30	31		

DEMONSTRATION







April



Dr Tatiana Erukhimova (Texas A&M University) demonstrates a wide range of physics phenomena with her contagious enthusiasm.

Find out how she demonstrates pressure with the help of eggs by watching this video!

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
13						1	2
14	3 PRIMECH EVENT	4	5	6	7 Good Friday	8	9 Easter Sunday
15	10 Easter Monday	11	12	13	14	15	16
16	17	18	19	20	21	22	23
17	24	25	26	27 King's Day	28	29	30



THAT TIME WHEN ...

In early 1941, the inventor of computational statics, John Argyris was arrested for leaking research findings to the Allies. The head of the intelligence service of the German forces arranged Argyris' escape under the pretence that Argyris was to be executed outside the concentration camp, the guards let them pass by. Shortly afterwards, Argyris managed to swim across the Rhine to freedom, holding his passport between his teeth. Without that swim, mechanics as we know it would be very different!



John Argyris (1913 - 2004), one of the inventors of the Finite Element method



May

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
18	1	2	3	4	5 Liberation Day	6	7
19	8	9	10	11	12	13	14 Mother's Day
20	15	16	17	18 Ascension Day	19	20	21
21	22	23	24	25	26	27	28 Whit Sunday
22	29 Whit Monday	30	31	PRIMECH EVENT	1		



Scan the QR code to read more biographies of mechanics protagonists

Kurrer, K.-E. (2018). The history of the theory of structures: searching for equilibrium



Ep méduste mppl spatujate milt doct up zor be zemm

June

CAN YOU SOLVE THIS?





Do you think you got it? Scan de QR code to check the solution!

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
22				1	2	3	4
23	5	6	7	8	9	10	11
24	12	13	14	15	16 PRIMECH EVENT	17	18 Father's Day
25	19	20	21	22	23	24	25
26	26	27	28	29	30		

DEMONSTRATION

You're an engineer in the Netherlands and you think you know all about bikes? This video might test your knowledge!



Watch till the end for a TU Delft appearance!





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Scan the QR code to watch the video

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
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30	24	25	26	27	28	29	30
31	31						

SOLVE HOW TO

JURITE OUT ALL EQUATION AND FACTS



2) DRAW FREE BODY DIAGRAM



3) SOLVE



by Zach Weinersmith, smbc-comincs.com

4) GET WRONG ANSWER



5) CHECK CALCULATIONS. GET NEW WRONG ANSWER



6) REDO CALCULATIONS GET THIRD WRONG ANSWER



August

7) SPECIAL PLEADING



8) CHECK FOR ERRATA



9) FIND NOTHING.



LOCATE ALGEBRA ERROR

2-3=5

11)GET FOURTH WRONG ANSWER



12) LOCATE SEVENTEEN MORE ALGEBRA ERRORS

2-3=5 5 = 52 5a = 5(a) = 10

10 - ZEBRA

13)GET RIGHT ANSWER



14) FEEL



INTELLIGENT A SINGLE MATH



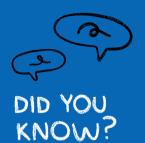


16) BECOME POET



	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
31		1	2	3	4	5	6
32	7	8	9	10	11	12	13
33	14	15	16	17	18	19	20
34	21	22	23	24	25	26	27
35	28	29	30	31			







Isaac Newton, considered the creator of the subject , of mechanics

September

Thurs Mon

Although Isaac Newton had unexceptional results in high school, one of his teachers thought he was university material and gave him extra tutoring.

The hallmark of Newton's scientific career: he often did not publish his important discoveries, at least not in a timely manner, and then he became very angry and aggressive when others made similar discoveries independently.

Check your inbox for the next PRIMECH events







Demonstration of circular motion compared to the motion of a mass on a spring by Harvard Natural Sciences Demonstrations.





Scan the QR code to watch the video





October

4 1	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
39							1
40	2	3	4	5	6	7	8
41	9	10	11	12	13	14	15
42	16	17	18	19	20	21	22
43	23 PRIMECH EVENT	24	25	26	27	28	29
44	30	31					





Using data of only three simple experimental setups (one of which is a pendulum), a computer has been able to figure out Newton's second law as well as conservation of energy and momentum by itself, without any prior knowledge.

Last summer, this line of research was successfully continued with a wider range of physical systems.



November

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
44			1	2	3	4	5
45	6	7	8	9	10	11	12
46	13	14	15	16	17	18	19
47	20	21	22	23	24	25	26
48	27	28	29	30			

Chen, B. et al. (2022). Automated discovery of fundamental variables hidden in experimental data. Nature Computational Science, 2(7), 433–442.

Schmidt, M., & Lipson, H. (2009). Distilling Free-Form Natural Laws from Experimental Data. Science, 324(5923), 81–85.



CAN YOU SOLVE THIS ?





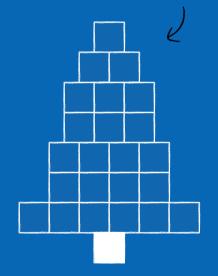








December



48	
49	
50	
51	

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
8					1	2	3
9	4	5 Sinterklaas	6	7	8	9	10
0	11	12	13 PRIMECH EVENT	14	15	16	17
1	18	19	20	21	22	23	24
2	25	26	27	28	29	30	31



Do you think you got it? Scan de QR code to check the solution!



2024

January

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February

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March

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April

S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

May

S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

June

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July

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August

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September

S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

October

S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

November

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December

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PRIMECH

PRIMES