



How we use Isaac Physics

Sunday 4th September 2022







- A Level
 - physics (75)
 - (physical) chemistry (80)
 - Biology (on it's way)
- GCSE Physics, (500)
- Year 9 Physics (a little), (250)
- Year 7 & 8 to be integrated this year
 - GCSE quizzes with Y9 very useful
- Maths use Dr Frost and Hegarty maths (really good),
- Only a few physics students use Isaac Maths



Mark book structure

Each class has two worksheets in excel



- The first of each pair is the Isaac download worksheet
- The second is the main mark-book worksheet where all class and homework and tests (etc) are recorded



The Isaac download worksheet

Cut & paste Isaac download into first worksheet

- I am last alphabetically (ZDavies).
- This ensures I can see if I have not done any of the questions set to the class (important for A Level especially)

Assignment	ts for 'ND Y	10 2018	-20 Cu	rie' (14	755)	
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Generated	by: Nick ZD	avies				
	Due		10-Sep	14-Sep	19-Sep	26-Sep
Last Nam ▼	First Na ▼	% C(▼	% Cor	% Cor	% Cor	% Cor
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Khan	Genghis	83	88	95	100	100
Smith	Tom	95	100	0	100	100
Smith	Dick	100	100	100	12	100
Smith	Harry	99	100	100	100	100
ZDavies	Nick	95	92	91	100	100



Isaac download worksheet

Topic analysis (Formulae)

order check

student

(Board) formulae

Unedited Isaac Physics download

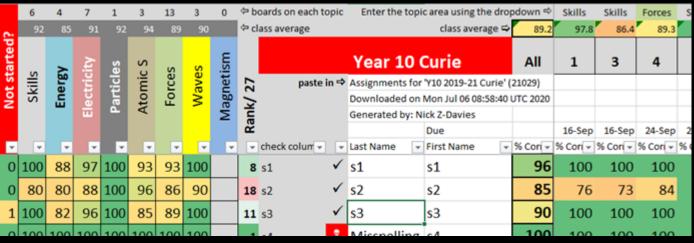
The formulae analyse results by topic Formulae also feeds information into the second worksheet

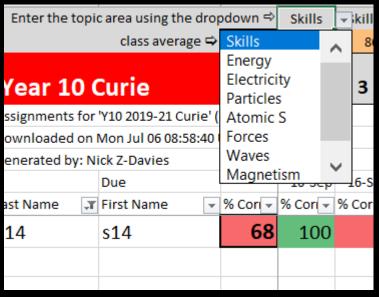
download order must match mark-book order

=IF(S14=R14,"ü","N")
Font = wingdings
Conditional formatting set



How does the Isaac download worksheet work?





All my boards are classified on the code tab (last tab). You can also manually select the topic and source from the drop down lists and add a short name, if it's a new board. Or (if brave) edit the code tab to classify your new board



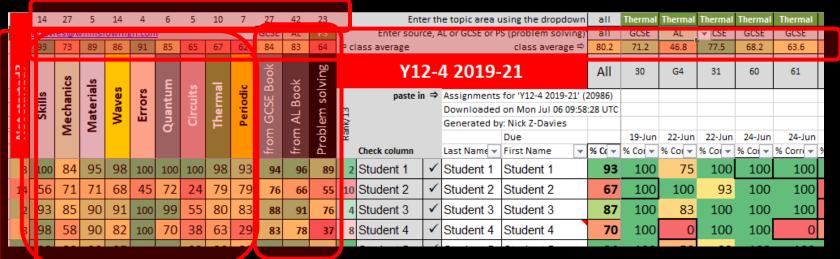
How does the Isaac download worksheet work?

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<u>r</u>	ndavie	s@wi	Imslo	whigh	h.com					GCSE	AL	PS		Enter sour	ce, A	L or GCSE or P	S (problem solving	all	GCSE	AL	→ CSE	GCSE	GCSE
	93	73	89	86	91	85	65	67	62	84	83	64	⇔ cl	ass average			class average ≒	80.2	71.2	46.8	77.5	68.2	63.6
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2	93	85	90	91	100	99	55	80	83	88	91	76	4	Student 3	✓	Student 3	Student 3	87	100	83	100	100	100
8	98	58	90	82	100	70	38	63	29	83	78	37			Student 4	Student 4	70	100	0	100	100	0	
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2	Student 1	✓	Student 1	Student 1		93	100	75	1
10	Student 2	✓	Student 2	Student 2		67	100	100	



How does the Isaac download worksheet work?



How many boards are set on each topic

The class averages

boards that haven't been started

Performance in each topic

Performance on GCSE questions

Performance on A Level skills questions

Performance on problem solving questions



									29-Apr	06-Jun		12-Jun	06-Jul	
				-9%	73%	6.7	Shared with TC & CS	1	89.0	89.6	1.2	23	72	47
	нw			Inc	Dec	:19	10 Curie 7F, 18M		IP	IP	IP	SEN	SEN	diff
IP ra <u>nk</u>	not	bds on 0	bds <60		mo	ck		Seneca	old	new	inc	ECA	ECA	
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8	5	0	0	-27%	64%	6	s1	Yes	96	96		10	57	47
18	1	0	1	-13%	59%	5	s2	Yes	87	87		12	57	45
11	0	1	1	-4%	61%	6	s3	Yes	93	93		25	71	46
1	1	0	0	-6%	98%	9	s4	Yes	100	100		10	71	61
1	1	0	0	096	100%	9	s5	Yes	100	100		2	83	81
21	3	1	3	-6%	80%	7	s6	Yes	85	85		21	93	72
13	5	0	0	-5%	57%	5	s7	Yes	90	89	-1	88	111	23
1	1	0	0	11%	89%	8	s8	Yes	99	99		10	76	66



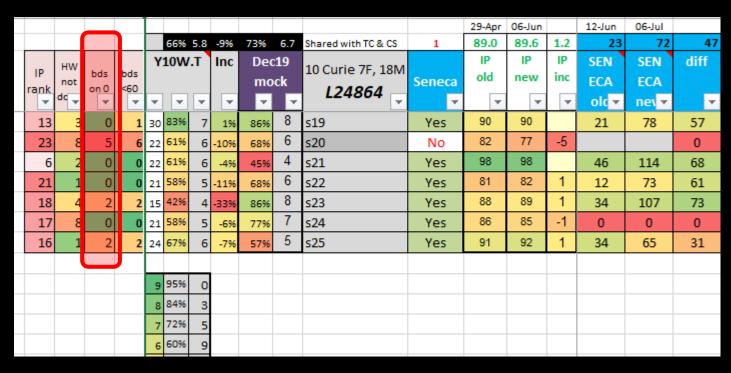
I add isaac class code to class name.



													29-Apr	06-Jun		12-Jun	06-Jul	
						66%	5.8	-9%	73%	6.7	Shared with TC & CS	1	89.0	89.6	1.2	23	72	47
	IP	нw			Y	10W	т.	Inc	Dec	19	10 Curie 7F, 18M		IP	IP	IP	SEN	SEN	diff
1		not	bds on 0	bds <60					mo	ck		Seneca	old	new	inc	ECA	ECA	
I	7	lc 🔟	-	~	¥	-	\blacksquare	-	-	~	L24864	₩.	₩	₩	-	olc ▽	ne\✓	-
	13	3	0	1	30	83%	7	196	86%	8	s19	Yes	90	90		21	78	57
	23	8	5	6	22	61%	6	-10%	68%	6	s20	No	82	77	-5			0
	6	2	0	0	22	61%	6	-4%	45%	4	s21	Yes	98	98		46	114	68
	21	1	0	0	21	58%	5	-11%	68%	6	s22	Yes	81	82	1	12	73	61
	18	4	2	2	15	42%	4	-33%	86%	8	s23	Yes	88	89	1	34	107	73
	17	8	0	0	21	58%	5	-6%	77%	7	s24	Yes	86	85	٦-	0	0	0
	16	1	2	2	24	67%	6	-7%	57%	5	s25	Yes	91	92	1	34	65	31
U																		
					9	95%	0											
					8	84%	3											
					7	72%	5											
					6	60%	9											

Rank within class





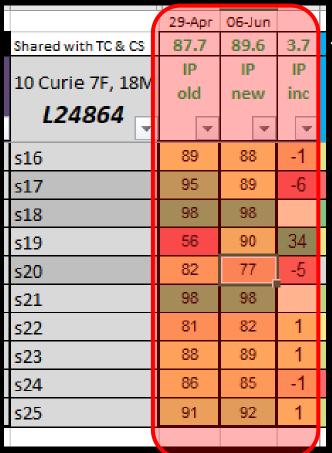
I like to know who has not started a board Student #20 has 5 boards with zero progress. and 6 boards below 60% (trilogy group)



													29-Apr	06-Jun		12-Jun	06-Jul	
						66%	5.8	-9%	73%	6.7	Shared with TC & CS	1	89.0	89.6	1.2	23	72	47
IP rank	HW not	bds on 0	bd <6		Y:	10W	т.	Inc	Dec mo		10 Curie 7F, 18M	Seneca	IP old	IP new	IP inc	SEN ECA	SEN ECA	diff
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13	3	О		1	80	83%	7	196	86%	8	s19	Yes	90	90		21	78	57
23	8	5		6	22	61%	6	-10%	68%	6	s20	No	82	77	-5			0
6	2	0		0	22	61%	6	-496	45%	4	s21	Yes	98	98		46	114	68
21	1	0		0	21	58%	5	-1196	68%	6	s22	Yes	81	82	1	12	73	61
18	4	2		2	15	42%	4	-33%	86%	8	s23	Yes	88	89	1	34	107	73
17	8	0		0	21	58%	5	-6%	77%	7	s24	Yes	86	85	٦-	0	0	0
16	1	2		2	24	67%	6	-796	57%	5	s25	Yes	91	92	1	34	65	31
					9	95%	0											
					8	84%	3											
					7	72%	5											
					6	60%	9											

I also like to know who is doing the minimum. Hurdle is different for each class. Student #20 has 6 boards with insufficient progress (for this class < 60%).



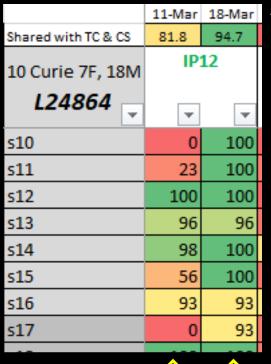


needs recognition

About once a month, I manually cut and paste the overall% scores for each student – and date it,



Homework status



□ Date set / due

I always give them one week to do Isaac Physics

left hand side: pasted values from the day homework is due (18th March)

right hand side formula: current status (latest IP download)



GCSE Foundation students

Note some of the B Qu	ıizz	es are omitted, they	cou	ıld be set as extens	sion	questions for a mi	xed	ability group. Go to	Ηt	to find them.					
Skills		Energy		Electricity		Particles		Atomic Structure		Mechanics		Waves & Optics		Magnetism	
1. units (Y9, Y10F)	9	Work done Quiz A	9	9-20 Large/small Nos	9	Density Quiz A	9	51 atomic numbers F	10	Weight Quiz A	9	Waves Quiz A	9	F = BIL Quiz A	11
5 Variables & constants	9	9-24 Work	9	22 Q=lt F	9	9-30 Density	9	52 rad. decay F	10	9-11 Weight & F-res	9	9-35 Frequency	10		
6 straight line graphs F	9	<u>9-26 Power</u>	9	Q & I Quiz A	9	9-31 Floating	9	53 half life F	10	<u>8 s, v, t F</u>	9	<u>9-36 λ, ν = fλ</u>	10		
7 proportionality F	10	9-27 Energy flow & eff	9	9-18 Q=It 1	9	9-34 Pressure	9	<u>Half life Quiz A</u>	10	9-2 Units of distance	9	38 wave props F	10		
2 standard form F	10	Power & Energy Quiz A	9	9-17 V in circuits	10	SHC Quiz A	10	<u>Half life Quiz B</u>	11	Speed Quiz A	9	38A add. wave F	10		
Practical skills GCSE	11	Power & Energy Quiz B	10	9-20 Current	10	30 thermal energy F	10			9-28 Bal & moments	9	Waves Quiz B	10		
		work done Quiz B	10	22A add. Q&I F	10	30A add. Thermal F	10			8A addl s, v, t F	10	9-45 Waves SQ	10		
		9-29 Energy & Temp	10	Q & I Quiz B	10	31 latent heat F	10			Weight Quiz B	10	9-46 Waves SQ	11		
		35 efficiency F	10	9-18 Q= It 2	10	Latent heat Quiz A	<u>10</u>			37 springs F	10	9-37 Echoes	11		
Isaac		GPE Quiz A	11	23 circuit rules F	10	Density Quiz B	11			Springs Quiz A	10				
		GPE Quiz B	11	9-23 Sharing voltage	10	SHC Quiz B	11			10 s-t graphs F	10				
-		<u>9-25 GPE</u>	11	Resistance Quiz A	10	59 Boyle's law F	11			9-4 Velocity	10				
		34 kinetic energy F	11	24 resistance F	10					9-6 Calc velocities	10				
		KE Quiz A	11	9-21 Resistance	10					11 acceleration F	10				
		36 power & body F	11	Series res. Quiz A	10					Acceleration quiz A	10				
		33 work PF nower F	11	25 IV granhs F	11					9-8 Acceleration	10				

Boards with an F suffix involve only the easier questions. Boards are hyper-linked.

I rarely set any B quizzes for weak (or mixed) groups.

Not all GCSE boards are in the F list



GCSE Higher students

Year 9 Isaac		Y9-11 Trilogy		Separates only		Quiz									
Skills		Energy		Electricity		Particles		Atomic Structure		Mechanics		Waves & Optics		Magnetism	
1 units	9	Work done Quiz A	9	22 Q=It	9	Density Quiz a	9	51 atomic numbers	10	Weight Quiz a	9	Waves Quiz a	9	F = BIL Quiz A	11
2 standard form	9	<u>9-24 Work</u>	9	Q & I Quiz A	9	Density Quiz b	9	52 rad. decay	10	Weight Quiz b	9	<u>9-35 T & f</u>	9	F = BIL Quiz B	11
5 Variables & constants	9	<u>9-26 Power</u>	9	Q & I Quiz B	9	9-30 Density	9	53 half life	10	9-11 Weight & F-res	9	<u>9-36 λ, ν = fλ</u>	9	28 EM ind'n & gen (H)	<u>s</u>
9-5 Re-arr equations	9	9-27 E flow & eff	9	9-19 Lg/sml Nos	9	9-31 Floating	9	Half life Quiz A	10	<u>8 s, v, t</u>	9	38 wave props	10	29 transformers	S
1A add. units	10	35 efficiency F	10	9-20 Current	10	9-34 Pressure	9	<u>Half life Quiz B</u>	10	9-2 Units of distance	9	38A add. wave props	10		
6 straight line graphs	10	9-29 Energy & Temp	10	9-17 V in circuits	10	SHC Quiz A	10	55 fission reactor	s	Speed Quiz A	9	Waves Quiz B	10		
7 proportionality	10	work done Quiz B	10	22A add. Q & I	10	30 thermal energy	10			9-28 moments	9	9-45 Waves SQ	10		
7A add. proportionality	10	33 work PE,power	11	23 circuit rules	10	SHC Quiz B	10			8A addl s, v, t (H)	10	9-46 Waves SQ	11		
Practical skills GCSE	11	GPE Quiz a	11	Series res. Quiz A	10	30A add. Th. energy	10	icaac		37 springs	10	9-37 Echoes	11		
3 rearr. equations	11	<u>9-25 GPE</u>	11	24 resistance	10	31 latent heat	10	Isaac		Springs Quiz A	10	39 reflection plane	s		
9-47 challenge Qs	11	GPE Quiz b	11	Resistance Quiz A	10	Latent heat Quiz A	10			Springs Quiz B	10	45 seismic waves	s		
9-48 Dimens. Anal	11	34 kinetic energy	11	9-21 Resistance	10	Latent heat Quiz B	11			10 s-t graphs	10	48 convex lenses	s		
		KE Quiz a	11	9-23 Sharing p.d.	10	59 Boyle's law	11			9-3 s-t graphs	10	49 concave lenses	s		
		KE Quiz B	11	9-18 Q=lt 1	10	17 pressure	S			9-4 Velocity	10				
		35 efficiency	11			17A Add Pressure	s			9-6 Calc velocities	10				



Track each class - GCSE

Year 9 Isaac		Y9-11 Trilogy		Separates only		Quiz									
Skills		Energy		Electricity		Particles		Atomic Structure		Mechanics		Waves & Optics		Magnetism	
1 units	9	Work done Quiz A	9	22 Charge & current	9	Density Quiz a	9	51 atomic numbers	10	Weight Quiz a	9	Waves Quiz a	9	F = BIL Quiz A	11
2 standard form	9	<u>9-24 Work</u>	9	Q & I Quiz A	9	Density Quiz b	9	52 radioactive decay	10	Weight Quiz b	9	9-35 T & f	9	F = BIL Quiz B	11
5 Variables & constants	9	<u>9-26 Power</u>	9	Q & I Quiz B	9	9-30 Density	9	53 half life	10	9-11 Weight & F-res	9	<u>9-36 λ, ν = fλ</u>	9	28 EM ind'n & gen (H)	S
9-5 Re-arr equations	9	9-27 Energy flow & eff	9	9-19 Large/small Nos	9	9-31 Floating	9	Half life Quiz A	10	<u>8 s, v, t</u>	9	38 wave props	10	29 transformers	S
1A add. units	10	35 efficiency F	10	9-20 Current	10	9-34 Pressure	9	<u>Half life Quiz B</u>	10	9-2 Units of distance	9	38A add. wave props	10		
6 straight line graphs	10	9-29 Energy & Temp	10	9-17 V in circuits	10	SHC Quiz A	10	55 fission reactor	s	Speed Quiz A	9	<u>Waves Quiz B</u>	10		
7 proportionality	10	work done Quiz B	10	22A add. Q & I	10	30 thermal energy	10			8A addl s, v, t (H)	10	9-45 Waves SQ	10		
7A add. proportionality	10	33 work PE,power	11	23 circuit rules	10	SHC Quiz B	10			37 springs	10	9-46 Waves SQ	11		
Practical skills GCSE	11	GPE Quiz a	11	Series res. Quiz A	10	30A add. Th. energy	10	icaac		Springs Quiz A	10	9-37 Echoes	11		
3 rearranging equations	11	<u>9-25 GPE</u>	11	24 resistance	10	31 latent heat	10	isaac		Springs Quiz B	10	39 reflection plane	S		
9-47 challenge Qs	11	GPE Quiz b	11	Resistance Quiz A	10	<u>Latent heat Quiz A</u>	10			10 s-t graphs	10	45 seismic waves	S		
9-48 Dimens. Anal	11	34 kinetic energy	11	9-21 Resistance	10	<u>Latent heat Quiz B</u>	11			9-3 s-t graphs	10	48 convex lenses AQA	s		
		<u>KE Quiz a</u>	11	9-23 Sharing voltage	10	59 Boyle's law	11			9-4 Velocity	10	49 concave lenses AQA	s		

Allows me to keep a track of what I have set for classes



Track each class – A Level

out of spec	AL book	GCSE board	Quiz	PS boards							
Skills	Mechanics	Materials	Circuits	Waves	Particles/ quantum	Periodic M	Gases & thermal	Fields	Capacitors	Nuclear Physics	Astro
A1 re-arranging equations	9 displacement	Density	22 Charge & Current	38 wave props	D6 photoelectric effect	18 moving in circle	G1 Kelvin scale of temperature	F5 newtonian gravity	I1 Charge and energy stored		<u>Telesco</u>
A2 derived and base SI units	13 Fres & acc	37 Springs	23 circuit rules	39 reflection plane mirrors	The Photoelectric	Radians and Geometry	30A additional thermal energy	F6 Gravity & Orbits	I2 Capacitor networks	52 radioactive decay	D1 Amp
A3 standard form and prefixes	14 terminal V	B7 Springs	24 resistance	40 reflection concave	<u>D7 quantum</u> <u>calculations</u>	F3 units of rotary motion	31 latent heat	Gravitational Fields L4	I3 Discharge of a capacitor	53 half life	Star cla
A4 converting units	15 stopping	B6 stress, strain & Young's mod	25 IV char	42 refraction	Quantum Calculations	Circular mtn & ang vel ND	G3 Heat Capacity	Gravity and orbits	Charging capacitors	Half life Quiz B	Spectr
A5 Gradients & graph intercepts	17 pressure	B9 Energy. Springs, mats	IV characteristics	Wave motion	D9 Energy levels	F4 centripetal acceleration	G4 Latent heat and heat cap	H1 uniform electric fields	Discharging a capacitor	J1 Nuclear equations	<u>L7 9</u>
A6 Equations of graph	B1 components of a vector	Materials 345	26 power	Electromagnetic spectrum	<u>L2 Fundamental</u> particles & inter.	Centripetal force	59 Boyle's law	H2 E field near point charges	Capacitor ac	J2 Activity and decay	K1 red
A7 area under a graph	B2 adding vectors		27 R & P	D3 path difference	L6 MRI & PET scanning	F7 oscillators	60 pressure law	H3 speed of electron in E field	Capacitors in series & parallel	J3 Nuclear decay	Dopple
A8 area under a graph II	Resolving vectors		Electrical power	wave equation		SHM time period	61 Charles' law	Electrons in E field		K2 Exponential extrapolation	L8 Histo
A9 Factor & % Changes	Adding Vectors ND v2		GCSE Hard Flectricity	D4 interference		SHM2	62 general gas law	Properties E fields		J4 Energy in nuc.	Stars a



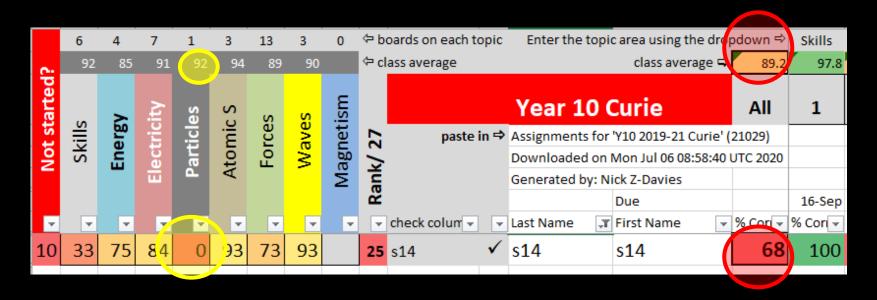
Parental contact (1)

											29-Apr	06-Jun		12-Jun	06-Jul	
					66%	5.8	-9%	105%	6.5	Shared with TC & CS	87.7	89.6	3.7	23	72	47
	HW			Y:	10W	т.	Inc	Dec	19	10 Curie 7F,	IP	IP	IP	SEN	SEN	diff
IP	not	bds on 0	bds <60					mo	ck	18M	old	new	inc	ECA	ECA	
rank	dono	₩ ₩	₩	~	v	-	_	v	v	L24864 🖫	~	~	~	ol(∓	ne\	-
25	6	4	4	22	61%	6	-24%	61%	6	s14	61	65	4	88	113	25
				9	95%	0		9	2							
				8	84%	3		8	5							
				7	72%	5		7	7							
				6	60%	9		6	6							
				5	50%	4		5	4							
				4	40%	2		4	1							
				3	30%	1		3	0							
				2	20%	0		2	0							
				1	10%	0		1	0							

Main mark-book worksheet



Parental contact (2)

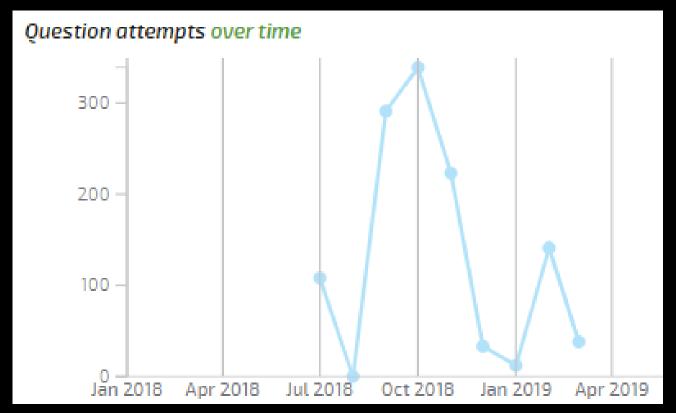


- 1. Compare student's overall% (All) with class average
- 2. Compare student's Particle% with class average

Isaac Download worksheet



Trend analysis

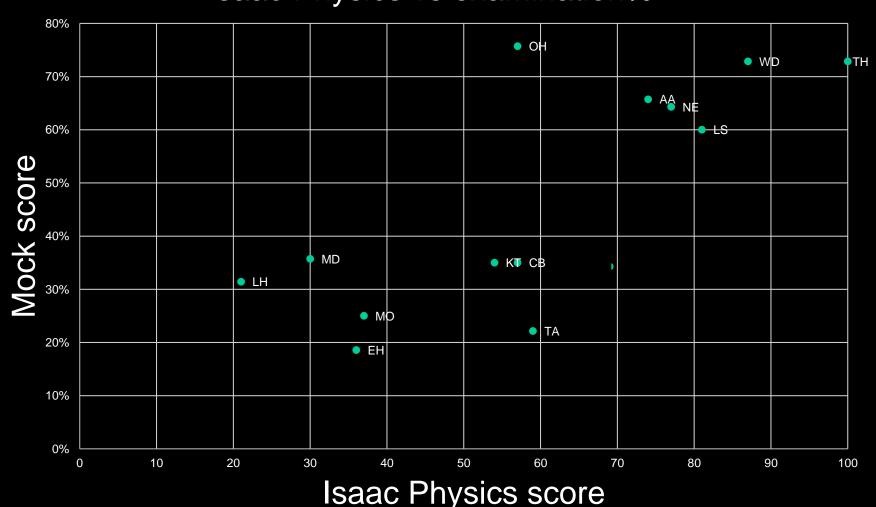


Go to *Manage Groups* on Isaac, select relevant *class* and then click on the student's name and scroll down.



Graphs for leadership

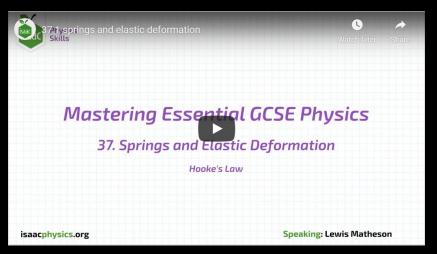
Isaac Physics vs examination%

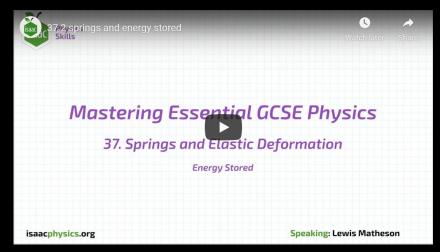




Relevant Isaac Physics questions

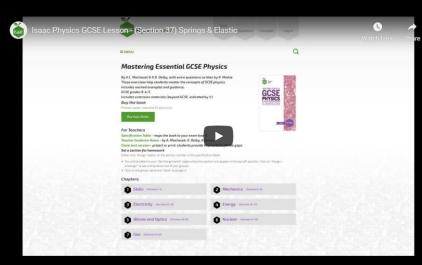
37 springs





(3:07)

(2:15)



(Tutorial 27:13)



My view of isaac

- √ Helps understanding of strengths & weaknesses
- √ Saves huge amount of time,
- √ re-invest saved time in formative assessment.
- √ Harder for students to copy work (in registration)
- ✓ Improves my subject knowledge
- ✓ Isaac Physics at WHS:
 - √ Physics fully integrated
 - √ Chemistry rapidly improving
 - √ Maths only really used by Physics dept.
- ✓ Useful for spaced learning.



(minor) Issues with



- Start with numeric boards
 - ② Demonstrate equation editor to class.
 - Equation editor on phones can be challenging
- Don't set boards you can't do!
- Many students, initially, did not like the switch to IP.
 - Parents wrote, asking to switch back to written work.
 - ② IP is hard to copy in morning registration.
 - On't like lack of feedback about what is wrong.
 - Some struggle to understand that they need to learn to struggle!
 - Girls seem not to like it as much as boys (anecdotal)



Exam analysis tool

Nothing to do with Isaac Physics*

Ente	r maximum marks for question part ⇒	85			37	25	23	31	3	11	11	20	9						
SET N°	Jan 2020 Y13 A level mock	To	otal	Grade	Calc	Desc	Recall	Mech	Mat	elec	Part	Waves	Per		ltiple oice	Silly	SE%	% with no SE	grade no SE
2	Student X	61	71.8%	В	81%	56%	74%	90%	67%	36%	91%	60%	56%	16	64%	10	12%	84%	Α
	Cohort average	49.7	58.5%	С	66%	44%	63%	63%	68%	39%	71%		56%	16	65%	8.8	10%	71%	В
					В	D	В	В	В	D	В	С	С		В	Add up silly errors	% SE	Add SE% to %score	
	Recall = things to LEARN	Grad	le distr	ibution		Grade	Bounda	ries									Grad	de distri	bution
	Desc = describe / explain		A *	4		A *	84%											Α*	4
	Calc = calculation questions		Α	4		Α	72.4%											Α	15
			В	13		В	60%											В	2
	Mech = mechanics		С	4		С	49%											С	10
	Mat = materials		D	6		D	37%											D	1
	Elec = electricity		Е	5		Е	26%											E	0
	Part = Particles, quantum		U	2		U	0%											U	0
	Atom = atomic structure																		
	Per = circular motion, SHM																		
	Wave = Waves																		
	Mag = magnetism																		
	Space = Space physics																		
	HSW = practicals																		

* Other than the fact that Isaac buys me the time to do this. File template available email me: ndavies@wilmslowhigh.com