



How we use Isaac Physics

Sunday 4th September 2022



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Who uses ?

- 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**

5	10c	s	10t	b	11b	c	11c	h	11h	t	11t	3	122	4	124	1	131	2	132

- 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)

Assignments for 'ND Y10 2018-20 Curie' (14755)						
Downloaded on Mon Jun 24 06:35:14 UTC 2019						
Generated by: Nick ZDavies						
	Due		10-Sep	14-Sep	19-Sep	26-Sep
Last Nam ▾	First Na ▾	% Co ▾	% Cor	% Cor	% Cor	% Cor
The Hun	Attila	60	84	100	100	100
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

		(Board) formulae
Topic analysis (Formulae)	student order check	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?

Not started?	6	4	7	1	3	13	3	0	boards on each topic			Enter the topic area using the dropdown				Skills	Skills	Forces	
	92	85	91	92	94	89	90		class average			class average				89.2	97.8	86.4	89.3
	Skills	Energy	Electricity	Particles	Atomic S	Forces	Waves	Magnetism	Rank/ 27	Year 10 Curie				All	1	3	4		
	paste in									Assignments for 'Y10 2019-21 Curie' (21029)									
										Downloaded on Mon Jul 06 08:58:40 UTC 2020									
										Generated by: Nick Z-Davies									
										Due		16-Sep	16-Sep	24-Sep					
										Last Name	First Name	% Cori	% Cori	% Cori	% Cori				
	0	100	88	97	100	93	93	100	8	s1	✓	s1	s1	96	100	100	100		
	0	80	80	88	100	96	86	90	18	s2	✓	s2	s2	85	76	73	84		
1	100	82	96	100	85	89	100	11	s3	✓	s3	s3	90	100	100	100			
0	100	100	100	100	100	100	100	1	s4	✓	s4	s4	100	100	100	100			

Enter the topic area using the dropdown	Skills	skill
class average	Skills	8
Year 10 Curie	Energy	3
Assignments for 'Y10 2019-21 Curie' (21029)	Electricity	
Downloaded on Mon Jul 06 08:58:40 UTC 2020	Particles	
Generated by: Nick Z-Davies	Atomic S	
	Forces	
	Waves	
	Magnetism	
	Due	16-Sep
Last Name	First Name	% Cori
14	s14	68
		100

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?

Not started?	14	27	5	14	4	6	5	10	7	27	42	23	Enter the topic area using the dropdown				all	Thermal	Thermal	Thermal	Thermal	Thermal				
	ndavies@wilmslowhigh.com												GCSE	AL	PS	Enter source, AL or GCSE or PS (problem solving)				all	GCSE	AL	CSE	GCSE	GCSE	
	93	73	89	86	91	85	65	67	62	84	83	64	↑ class average				class average ⇒				80.2	71.2	46.8	77.5	68.2	63.6
	Skills	Mechanics	Materials	Waves	Errors	Quantum	Circuits	Thermal	Periodic	from GCSE Book	from AL Book	Problem solving	Y12-4 2019-21				All	30	G4	31	60	61				
													paste in → Assignments for 'Y12-4 2019-21' (20986)													
													Downloaded on Mon Jul 06 09:58:28 UTC													
													Generated by: Nick Z-Davies													
	Rank/13												Due		19-Jun	22-Jun	22-Jun	24-Jun	24-Jun							
	Check column												Last Name	First Name	% Co	% Co	% Co	% Co	% Corr	%						
	3	100	84	95	98	100	100	100	98	93	94	96	89	2	Student 1	✓	Student 1	Student 1	93	100	75	100	100	100		
14	56	71	71	68	45	72	24	79	79	76	66	55	10	Student 2	✓	Student 2	Student 2	67	100	100	93	100	100			
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	8	Student 4	✓	Student 4	Student 4	70	100	0	100	100	0			

Enter the topic area using the dropdown						all	Thermal	Thermal	Thermal	
Enter source, AL or GCSE or PS (problem solving)						all	GCSE	AL	▼ CS	
↑ class average						class average ⇒		80.2	AL	
Y12-4 2019-21						All	PS			
							GCSE			
paste in ⇒						Assignments for 'Y12-4 2019-21' (20986)				
						Downloaded on Mon Jul 06 09:58:28 UTC				
						Generated by: Nick Z-Davies				
Rank/13						Due		19-Jun	22-Jun	22-
	Check column					Last Name ▼	First Name ▼	% Co ▼	% Co ▼	% Co ▼
2	Student 1	✓	Student 1	Student 1		93	100	75	100	100
10	Student 2	✓	Student 2	Student 2		67	100	100	100	100



How does the Isaac download worksheet work?

14 27 5 14 4 6 5 10 7 27 42 23												Enter the topic area using the dropdown		all	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	
www.isaacdownloader.com												Enter source, AL or GCSE or PS (problem solving)		all	GCSE	AL	CSE	GCSE	GCSE		
93 73 89 86 91 85 65 67 62 84 83 64												class average		80.2	71.2	46.8	77.5	68.2	63.6		
												Y12-4 2019-21		All	30	G4	31	60	61		
												paste in → Assignments for 'Y12-4 2019-21' (20986)									
												Downloaded on Mon Jul 06 09:58:28 UTC									
												Generated by: Nick Z-Davies									
												Due		19-Jun	22-Jun	22-Jun	24-Jun	24-Jun			
												Last Name		First Name	% Cor	% Cor	% Cor	% Cor	% Cor	% Cor	
												Check column		Student 1	Student 1	93	100	75	100	100	100
												Student 2		Student 2	67	100	100	93	100	100	
												Student 3		Student 3	87	100	83	100	100	100	
												Student 4		Student 4	70	100	0	100	100	0	

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



Main mark-book worksheet

									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
IP rank	HW not dc	bds on 0	bds <60	Inc	Dec19 mock		10 Curie 7F, 18M L24864	Seneca	IP old	IP new	IP inc	SEN ECA old	SEN ECA new	diff
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	0%	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  class code to class name.



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)



Main mark-book worksheet

										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 dc	bds on 0	bds <60	Y10W.T			Inc	Dec19 mock		10 Curie 7F, 18M L24864	Seneca	IP old	IP new	IP inc	SEN ECA old	SEN ECA new	diff						
13	3	0	1	80	83%	7	1%	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	-1	0	0	0						
16	1	2	2	24	67%	6	-7%	57%	5	s25	Yes	91	92	1	34	65	31						

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%).



Main mark-book worksheet

	29-Apr	06-Jun	
Shared with TC & CS	87.7	89.6	3.7
10 Curie 7F, 18M L24864	IP old	IP new	IP inc
s16	89	88	-1
s17	95	89	-6
s18	98	98	
s19	56	90	34
s20	82	77	-5
s21	98	98	
s22	81	82	1
s23	88	89	1
s24	86	85	-1
s25	91	92	1

← Class average score

← issue?

← needs recognition

← issue?

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



Homework status

	11-Mar	18-Mar
Shared with TC & CS	81.8	94.7
10 Curie 7F, 18M L24864	IP12	
s10	0	100
s11	23	100
s12	100	100
s13	96	96
s14	98	100
s15	56	100
s16	93	93
s17	0	93

← 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 Quizzes are omitted, they could be set as extension questions for a mixed ability group. Go to H 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=It 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	9-26 Power	9	Q & I Quiz A	9	9-31 Floating	9	53 half life F	10	8 s, v, t F	9	9-36 $\lambda, v = f\lambda$	10		
7 proportionality F	10	9-27 Energy flow & eff	9	9-18 Q=It 1	9	9-34 Pressure	9	Half life Quiz A	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	Half life Quiz B	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	10			37 springs F	10	9-37 Echoes	11		
		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				
		9-25 GPE	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 PE, power F	11	25 IV graphs 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	9-24 Work	9	Q & I Quiz A	9	Density Quiz b	9	52 rad. decay	10	Weight Quiz b	9	9-35 T & f	9	F = BIL Quiz B	11
5 Variables & constants	9	9-26 Power	9	Q & I Quiz B	9	9-30 Density	9	53 half life	10	9-11 Weight & F-res	9	9-36 λ, $v = f\lambda$	9	28 EM ind'n & gen (H)	S
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	8 s, v, t	9	38 wave props	10	29 transformers	S
1A add. units	10	35 efficiency F	10	9-20 Current	10	9-34 Pressure	9	Half life Quiz B	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			37 springs	10	9-37 Echoes	11		
3 rearr. equations	11	9-25 GPE	11	24 resistance	10	31 latent heat	10			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=It 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	9-24 Work	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	9-26 Power	9	Q & I Quiz B	9	9-30 Density	9	53 half life	10	9-11 Weight & F-res	9	9-36 λ, $v = f\lambda$	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	8 s, v, t	9	38 wave props	10	29 transformers	S
1A add. units	10	35 efficiency F	10	9-20 Current	10	9-34 Pressure	9	Half life Quiz B	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			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			Springs Quiz A	10	9-37 Echoes	11		
3 rearranging equations	11	9-25 GPE	11	24 resistance	10	31 latent heat	10			Springs Quiz B	10	39 reflection plane	S		
9-47 challenge Qs	11	GPE Quiz b	11	Resistance Quiz A	10	Latent heat Quiz A	10			10 s-t graphs	10	45 seismic waves	S		
9-48 Dimens. Anal	11	34 kinetic energy	11	9-21 Resistance	10	Latent heat Quiz B	11			9-3 s-t graphs	10	48 convex lenses AQA	S		
		KE Quiz a	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	Astrophysics
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	51 atomic numbers	Telescope
A2 derived and base SI units	13 Fres & acc	37 Springs	23 circuit rules	39 reflection plane mirrors	The Photoelectric effect	Radians and Geometry	30A additional thermal energy	F6 Gravity & Orbits	I2 Capacitor networks	52 radioactive decay	D1 Amp Inten As
A3 standard form and prefixes	14 terminal V	B7 Springs	24 resistance	40 reflection concave	D7 quantum calculations	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	Spectro qu
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	L7 S
A6 Equations of graph	B1 components of a vector	Materials 345	26 power	Electromagnetic spectrum	L2 Fundamental particles & inter.	Centripetal force	59 Boyle's law	H2 E field near point charges	Capacitor ac	J2 Activity and decay	K1 red Hubbl
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 with time	Dopple (ha
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 univ
A9 Factor & % Changes	Adding Vectors ND v2		GCSE Hard Electricity	D4 interference		SHM2	62 general gas law	Properties E fields		J4 Energy in nuc. reactions	Stars ar



Parental contact (2)

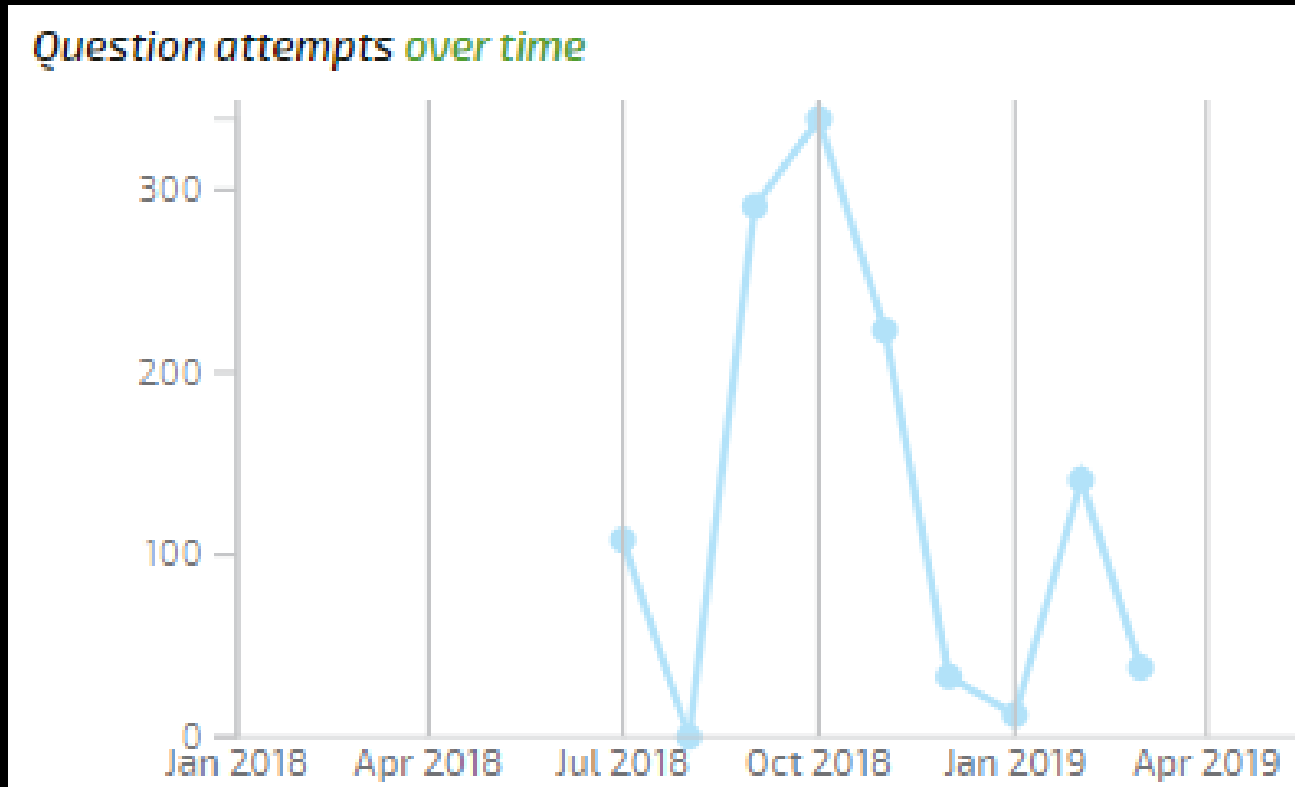
Not started?	6	4	7	1	3	13	3	0	boards on each topic		Enter the topic area using the dropdown		Skills		
	92	85	91	92	94	89	90	class average		class average		89.2	97.8		
	Skills	Energy	Electricity	Particles	Atomic S	Forces	Waves	Magnetism	Year 10 Curie					All	1
	Rank/ 27								paste in					Assignments for 'Y10 2019-21 Curie' (21029)	
									Downloaded on Mon Jul 06 08:58:40 UTC 2020						
								Generated by: Nick Z-Davies							
								Due				16-Sep			
check column								Last Name		First Name		% Cor		% Cor	
10	33	75	84	0	93	73	93	25	s14	✓	s14	s14	68	100	

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

Isaac Download worksheet



Trend analysis

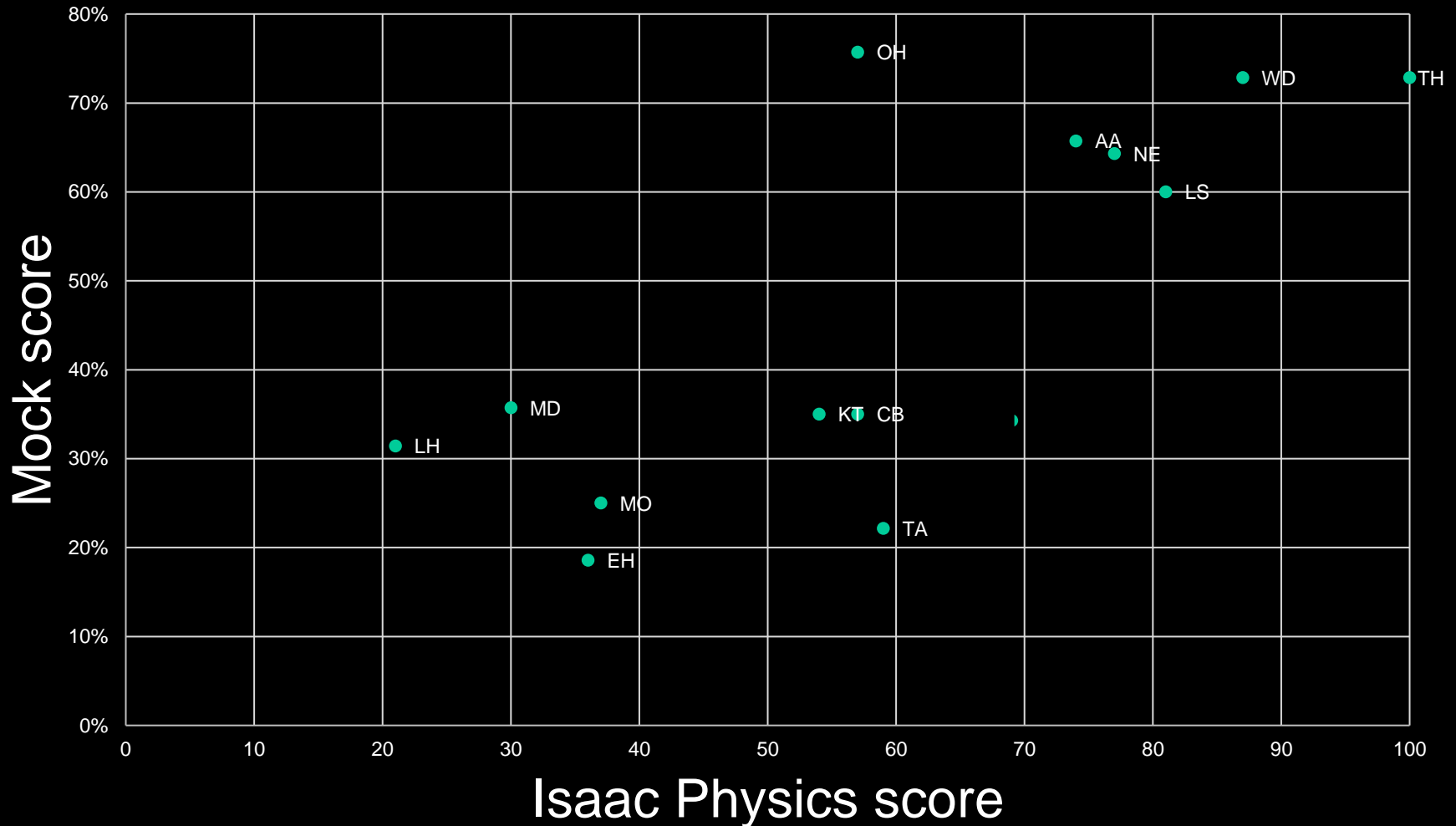


Go to **Manage Groups** on Isaac, select relevant **class** and then click on the student's name and scroll down.



Graphs for leadership


Isaac Physics vs examination%





Relevant Isaac Physics questions

- 37 springs

 37.1 springs and elastic deformation Skills Watch later Share


Mastering Essential GCSE Physics

37. Springs and Elastic Deformation

Hooke's Law

isaacphysics.org Speaking: Lewis Matheson

(3:07)

 37.2 springs and energy stored Skills Watch later Share

Mastering Essential GCSE Physics

37. Springs and Elastic Deformation

Energy Stored

isaacphysics.org Speaking: Lewis Matheson

(2:15)

Isaac Physics GCSE Lessons (Section 37) Springs & Elastic Watch later Share

Mastering Essential GCSE Physics

By A.C. Machacek & K.D. Dalby, with extra questions written by R. Meekie
These exercises help students master the concepts of GCSE physics.
Includes worked examples and guidance.
GCSE grades 9-4/5.
Includes extension materials (beyond GCSE, indicated by *)
Buy the book
Printed copies, available in paperback
Buy Isaac Books

For Teachers
Specification Table - maps the book to your exam board
Teacher Guidance Notes - by A. Machacek, K. Dalby, A. Meekie
Click for answer - project or print; students provide responses on the page.
Set a section for homework
Enter class 'teacher' below in the section number in the specification table.
• You will be taken to your 'Set assignments' page where the section will appear in the top left position. Click on 'Manage / Unassign' to see a list down list of your groups.
• Click on the group name and 'Task' to assign it.

Chapters:

1 Skills (Sections 1-5)	2 Mechanics (Sections 6-25)
3 Electricity (Sections 26-35)	4 Energy (Sections 36-45)
5 Waves and Optics (Sections 46-55)	6 Nuclear (Sections 56-65)
7 Gases (Sections 66-75)	

(Tutorial
27:13)



My view of



- ✓ 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
 - ☹ 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.
 - ☹ IP is hard to **copy** in morning registration.
 - ☹ Don'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*

Enter maximum marks for question part ➡		85			37			25		23		31		3		11		11		20		9											
SET N ^o	Jan 2020 Y13 A level mock	Total		Grade	Calc	Desc	Recall	Mech	Mat	elec	Part	Waves	Per	Multiple Choice		Silly errors		SE%	% with no SE	grade no SE													
2	Student X	61	71.8%	B	81%	56%	74%	90%	67%	36%	91%	60%	56%	16	64%	10	12%	84%	A														
	Cohort average	49.7	58.5%	C	66%	44%	63%	63%	68%	39%	71%	55%	56%	16	65%	8.8	10%	71%	B														
					B	D	B	B	B	D	B	C	C		B	Add up silly errors	% SE	Add SE% to %score															
	Recall = things to LEARN	Grade distribution			Grade Boundaries															Grade distribution													
	Desc = describe / explain	A*	4		A*	84%														A*	4												
	Calc = calculation questions	A	4		A	72.4%														A	15												
		B	13		B	60%														B	2												
	Mech = mechanics	C	4		C	49%														C	10												
	Mat = materials	D	6		D	37%														D	1												
	Elec = electricity	E	5		E	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.

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