

Analysis of data taken from the GTCW Register of Qualified Teachers

An analysis of GTCW registered teachers whose subject taught is recorded on the Register as Physics and / or Science

Background

The GTCW is required to hold, if available, degree and ITT qualification details of those teachers registered with us. When we were established in September 2000, much of the information we were provided with was inherited from the Department for Education & Skills and was not of a good quality. Although great effort has been made to improve the data held it should be noted that there are a number of registered teachers for whom we hold no qualification information. For registered teachers who qualified in Wales since 2003, the data held is much improved but is more sparse for those teachers who qualified some years ago. A teacher is not legally required to maintain their record with us so we are reliant on individuals providing copies of their qualification certificates in order to amend any qualification data held.

All subject trends for registered teachers can be found in our Annual Statistics Digest (www.gtcw.org.uk) and should be referred to for comparison purposes when considering any trends identified with the data provided below.

Notes:

- the data was taken from the Register of Qualified Teachers on the 1st March in each year 2010-2013.
- registered teacher numbers are displayed as 'actuals' rather than 'full-time equivalents'.
- subject taught:
 - data relates to those teachers working in the secondary sector only based on the main employment record held.
 - registered teachers are included more than once if more than one subject taught is recorded on their record.
- subject taught versus subject trained:
 - data in respect of subject trained relates to the first subject recorded on the register only.
 - registered teachers are included more than once if they teach Physics & Science.
 - only those teachers whose route to Qualified Teacher Status (QTS) was through a course of initial teacher training at a teacher training institution and not through any other route are included.
- Where the subject trained is shown as Science – subjects included which are mapped to the description of Science are Applied Biology, Combined Science, Combined/General Science, Combustion Science, Environmental Sciences, General Science, Integrated Science, Science, Science (Unspecified), Science and Technology, Science In The Human Environment, Science With Chemistry, Science With Physics, Science:earth Science, Science-Bal Sc With Environ Sc, Science-Biology-Bath Ude, Science-Chemistry-Bath Ude, Science-Geology-Bath Ude, Science-Physics-Bath Ude.
- No subject taught data is held for headteachers and therefore registered headteachers in the secondary sector are not included in this data.

3. Number of registered teachers teaching Science (secondary only) by age and gender

	2013						2012			2011			2010		
	Female	%	Male	%	Total	%	Female (%)	Male (%)	Total (%)	Female (%)	Male (%)	Total (%)	Female (%)	Male (%)	Total (%)
Under 25	19	2.8	14	2.4	33	2.7	4.3	2.0	3.2	2.7	2.8	2.8	5.2	1.3	3.4
25 to 29	121	18.1	47	8.1	168	13.5	17.5	9.0	13.5	16.1	11.0	12.8	18.5	9.6	14.3
30 to 34	126	18.9	97	16.8	223	17.9	18.2	18.1	18.2	26.2	14.6	18.6	18.6	17.6	18.1
35 to 39	122	18.3	94	16.3	216	17.3	19.0	15.4	17.3	13.4	16.0	15.1	17.6	16.4	17.0
40 to 44	95	14.2	102	17.6	197	15.8	12.6	18.3	15.2	15.4	15.7	15.6	11.6	16.3	13.8
45 to 49	66	9.9	81	14.0	147	11.8	9.2	11.2	10.1	13.4	15.7	14.9	9.7	13.3	11.4
50 to 54	52	7.8	76	13.1	128	10.3	8.4	13.5	10.8	5.4	11.4	9.3	8.0	12.0	9.9
55 to 59	48	7.2	47	8.1	95	7.6	8.0	9.3	8.6	4.7	8.2	7.0	8.8	10.0	9.3
60 to 64	16	2.4	19	3.3	35	2.8	2.5	3.0	2.8	2.7	4.3	3.7	1.9	3.2	2.5
65 +	2	0.3	1	0.2	3	0.2	0.3	0.2	0.2	0.0	0.4	0.2	0.1	0.3	0.2
Total	667	100	578	100	1245	100	100	100	100	100	100	100	100	100	100

4. Number of registered teachers age profile where the subject taught is Physics versus subject trained

	2013								2012								2011								2010							
	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%
Under 25	6	3.5	4	2.1	2	8.7	12	3.1	6	3.5	4	2.0	0	0	10	2.5	7	4.2	5	2.6	0	0	12	3.0	5	3.2	4	2.0	0	0	9	2.2
25 to 29	22	12.9	24	12.4	0	0	46	11.9	25	14.5	27	13.8	0	0	52	13.0	22	13.3	32	16.5	0	0	54	13.5	18	11.4	36	18.2	0	0	54	13.3
30 to 34	31	18.1	49	25.3	0	0	80	20.6	33	19.2	53	27.0	0	0	86	21.6	27	16.4	51	26.3	0	0	78	19.5	26	16.5	53	26.8	0	0	79	19.5
35 to 39	13	7.6	36	18.6	0	0	49	12.6	18	10.5	33	16.8	0	0	51	12.8	24	14.5	37	19.1	0	0	61	15.3	33	20.9	41	20.7	0	0	74	18.2
40 to 44	39	22.8	31	16.0	0	0	70	18.0	37	21.5	33	16.8	0	0	70	17.5	39	23.6	22	11.3	0	0	61	15.3	37	23.4	20	10.1	0	0	57	14.0
45 to 49	39	22.8	23	11.9	0	0	62	16.0	32	18.6	24	12.2	0	0	56	14.0	28	17.0	29	14.9	2	4.9	59	14.8	23	14.6	23	11.6	2	4.0	48	11.8
50 to 54	12	7.0	17	8.8	7	30.4	36	9.3	13	7.6	14	7.1	11	35.5	38	9.5	10	6.1	11	5.7	12	29.3	33	8.3	10	6.3	14	7.1	17	34.0	41	10.1
55 to 59	6	3.5	8	4.1	12	52.2	26	6.7	5	2.9	5	2.6	15	48.4	25	6.3	5	3.0	4	2.1	19	46.3	28	7.0	3	1.9	4	2.0	28	56.0	35	8.6
60 to 64	2	1.2	1	0.5	2	8.7	5	1.3	2	1.2	2	1.0	5	16.1	9	2.3	3	1.8	2	1.0	8	19.5	13	3.3	3	1.9	3	1.5	3	6.0	9	2.2
65 +	1	0.6	1	0.5	0	0	2	0.5	1	0.6	1	0.5	0	0	2	0.5	0	0	1	0.5	0	0	1	0.3	0	0	0	0	0	0	0	0
Total	171	100	194	100	23	100	388	100	172	100	196	100	31	100	399	100	165	100	194	100	41	100	400	100	158	100	198	100	50	100	406	100

5. Number of registered teachers gender breakdown where the subject taught is Physics versus subject trained

	2013					2012		2011		2010	
	Female	%	Male	%	Total	Female (%)	Male (%)	Female (%)	Male (%)	Female (%)	Male (%)
Trained in Subject	42	24.6	129	75.4	171	24.1	75.9	22.1	77.9	22.1	77.9
Not Trained in Subject	95	49.0	99	51.0	194	49.2	50.8	49.1	50.9	49.7	50.3
Not Known	6	26.1	17	73.9	23	25.0	75.0	26.3	73.7	26.3	73.7
Total	143	36.9	245	63.1	388	36.7	63.3	36.0	64.0	36.3	63.7

6. Number of registered teachers age profile where the subject taught is Science versus subject trained

	2013								2012								2011								2010							
	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%	Trained in Subject	%	Not trained in Subject	%	Subject trained Unknown	%	Total	%
Under 25	11	3.1	22	3.1	0	0	33	2.8	14	4.1	26	3.6	0	0	40	3.4	13	3.9	23	3.3	0	0	36	3.0	17	5.2	26	3.7	0	0	43	3.6
25 to 29	70	19.8	90	12.6	0	0	160	13.6	71	20.9	90	12.5	0	0	161	13.5	73	22.1	95	13.5	0	0	168	14.2	74	22.6	101	14.4	0	0	175	14.5
30 to 34	71	20.1	138	19.3	1	0.9	210	17.9	70	20.6	147	20.4	0	0	217	18.2	67	20.3	146	20.8	0	0	213	18.0	76	23.2	143	20.4	0	0	219	18.1
35 to 39	71	20.1	133	18.6	0	0	204	17.3	69	20.3	137	19.0	0	0	206	17.3	74	22.4	134	19.1	0	0	208	17.6	67	20.4	138	19.7	0	0	205	17.0
40 to 44	61	17.2	124	17.4	0	0	185	15.7	60	17.6	122	16.9	0	0	182	15.3	46	13.9	116	16.5	0	0	162	13.7	47	14.3	120	17.1	0	0	167	13.8
45 to 49	37	10.5	101	14.1	0	0	138	11.7	25	7.4	96	13.3	0	0	121	10.2	30	9.1	98	13.9	3	2.0	131	11.1	23	7.0	102	14.6	10	5.6	135	11.2
50 to 54	16	4.5	77	10.8	26	24.1	119	10.1	16	4.7	72	10.0	39	29.5	127	10.7	13	3.9	62	8.8	47	30.9	122	10.3	13	4.0	43	6.1	64	35.6	120	9.9
55 to 59	13	3.7	24	3.4	53	49.1	90	7.7	12	3.5	24	3.3	67	50.8	103	8.6	9	2.7	24	3.4	78	51.3	111	9.4	7	2.1	22	3.1	82	45.6	111	9.2
60 to 64	4	1.1	5	0.7	25	23.1	34	2.9	3	0.9	6	0.8	23	17.4	32	2.7	5	1.5	5	0.7	22	14.5	32	2.7	3	0.9	6	0.9	22	12.2	31	2.6
65 +	0	0	0	0	3	2.8	3	0.3	0	0	0	0	3	2.3	3	0.3	0	0	0	0	2	1.3	2	0.2	1	0.3	0	0	2	1.1	3	0.2
Total	354	100	714	100	108	100	1176	100.0	340	100	720	100	132	100	1192	100.0	330	100	703	100	152	100	1185	100.0	328	100	701	100	180	100	1209	100.0

7. Number of registered teachers gender breakdown where the subject taught is Science versus subject trained

	2013					2012		2011		2010	
	Female	%	Male	%	Total	Female (%)	Male (%)	Female (%)	Male (%)	Female (%)	Male (%)
Trained in Subject	209	59.0	145	41.0	354	60.0	40.0	60.0	40.0	59.2	40.8
Not Trained in Subject	372	52.1	342	47.9	714	51.4	48.6	51.4	48.6	50.8	49.2
Not Known	51	47.2	57	52.8	108	46.7	53.3	46.9	53.1	46.5	53.5
Total	632	53.7	544	46.3	1176	53.3	46.7	53.2	46.8	52.9	47.1