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| 50m Freestyle | 25.30 | Rosalind Brett | Loughborough University | 10/04/2001 | Manchester |
| 100m Freestyle | 54.62 | Melanie Marshall | Loughborough University | 11/04/2004 | Sheffield |
| 200m Freestyle | 1.56.66 | Rebecca Adlington | Nova Centurion | 08/04/2004 | Sheffield |
| 400m Freestyle | 4.02.24 | Rebecca Adlington | Nova Centurion | 10/08/2008 | Beijing |
| 800m Freestyle | 8.14.10 | Rebecca Adlington | Nova Centurion | 16/08/2008 | Beijing |
| 1500m Freestyle | 16.31.45 | Rebecca Adlington | Nova Centurion | 29/04/2006 | Coventry |
| 50m Backstroke | 28.43 | Harriet Cooper | City of Derby SC | 06/11/2015 | Dubai |
| 100m Backstroke | 1.00.95 | Harriet Cooper | City of Derby SC | 07/11/2015 | Dubai |
| 200m Backstroke | 2.11.86 | Karen Lee | Loughborough University | 11/04/2004 | Sheffield |
| 50m Breaststroke | 30.62 | Sarah Vasey | City of Derby SC | 02/05/2016 | Sheffield |
| 100m Breaststroke | 1.07.32 | Sarah Vasey | City of Derby SC | 29/01/2017 | Luxembourg |
| 200m Breaststroke | 2.26.81 | Molly Renshaw | Derventio Excel | 08/03/2012 | London |
| 50m Butterfly | 26.76 | Rachael Kelly | Loughborough University | 18/07/2013 | Portugal |
| 100m Butterfly | 57.71 | Rachael Kelly | Loughborough University | 17/05/2015 | London |
| 200m Butterfly | 2.08.89 | Standard Time | | Standard Time | |
| 200m Individual Medley | 2.12.31 | Sophie Smith | City of Leicester SC | 06/03/2012 | London |
| 400m Individual Medley | 4.39.01 | Rosie Rudin | Nova Centurion | 25/08/2015 | Singapore |
| 4 x 100m Freestyle Team | 3.49.04 | Loughborough University | Loughborough University | 27/06/2015 | Glasgow |
| 4 x 100m Medley Team | 4.08.70 | Loughborough University | Loughborough University | 17/07/2004 | Manchester |
| 4 x 200m Freestyle Team | 8.20.51 | Loughborough University | Loughborough University | 25/06/2015 | Glasgow |