

| 1980/81 | H/A | OPPONENTS | F-A | R | ATT | SCORERS | GK | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Sub |
|---------|-----|----------------------|-----|---|------|-----------------------------|-----------|-------------|-----------|----------|----------|----------|-----------|------------|------------|------------|----------|---------------|
| 16-Aug | H | GRANTHAM TOWN | 0-3 | L | 205 | | Alty | Woolf | McInnes | Burgess | Ramsden | Birchall | Guest | Smith | Moogan | Francis | Duffey | Connor |
| 19-Aug | H | MARINE | 2-3 | L | 311 | Duffey, Guest | Alty | Woolf | McInnes | Burgess | Ramsden | Birchall | Guest | Smith | Moogan | Francis | Duffey | Connor(8) |
| 23-Aug | A | BUXTON | 0-2 | L | 571 | | Coates | Killingbeck | McInnes | Burgess | Ramsden | Woolf | Guest | Birchall | Moogan | Francis | Duffey | Connor |
| 30-Aug | H | WORKINGTON | 0-0 | D | 200 | | Alty | Killingbeck | McInnes | Styles | Ramsden | Smith | Guest | Duggan | Moogan | Francis | Duffey | Burgess |
| 02-Sep | A | MORECAMBE | 2-1 | W | 215 | Francis(pen), Smith | Alty | Killingbeck | McInnes | Styles | Ramsden | Smith | Duggan | Guest | Moogan | Francis | Duffey | Burgess |
| 06-Sep | A | MACCLESFIELD TOWN | 1-0 | W | 412 | Guest | Alty | Killingbeck | McInnes | Styles | Ramsden | Smith | Guest | Duggan | Moogan | Francis | Duffey | Burgess |
| 20-Sep | A | KING'S LYNN | 0-3 | L | 324 | | Alty | Killingbeck | McInnes | Styles | Woodcock | Smith | Mitchell | Francis | Moogan | Brookfield | Guest | Ramsden(9) |
| 23-Sep | H | OSWESTRY TOWN | 3-2 | W | 165 | Guest, Brookfield(2) | Alty | Killingbeck | McInnes | Styles | Woodcock | Smith | Mitchell | Brookfield | Guest | Francis | Duffey | Moogan |
| 27-Sep | A | MATLOCK TOWN | 1-1 | D | 629 | Francis | Alty | Pritchard | McInnes | Styles | Woodcock | Smith | Francis | Moogan | Guest | Brookfield | Duffey | Duggan |
| 30-Sep | H | MOSSLEY | 1-3 | L | 308 | Francis(pen) | Alty | Pritchard | McInnes | Styles | Woodcock | Smith | Francis | Moogan | Duggan | Brookfield | Duffey | Birchall(9) |
| 04-Oct | H | LANCASTER CITY | 1-2 | L | 205 | Moogan | Alty | Pritchard | McInnes | Styles | Woodcock | Smith | Francis | Moogan | Branch | Brookfield | Duffey | Duggan |
| 18-Oct | A | MOSSLEY | 0-2 | L | 668 | | Alty | Ramsden | Pritchard | Styles | Woodcock | Branch | A.Wilson | Francis | Brookfield | Skeete | Guest | Birchall (6) |
| 21-Oct | A | RUNCORN | 0-3 | L | 1298 | | Alty | Ritson | Pritchard | Woodcock | Michael | Guest | A.Wilson | Francis | Mawson | Brookfield | Skeete | Birchall |
| 25-Oct | H | WORKSOP TOWN | 2-1 | W | 226 | Woodcock, Ritson | Alty | Ritson | Pritchard | Michael | Woodcock | Birchall | Guest | Francis | A.Wilson | Brookfield | Mawson | Branch |
| 01-Nov | A | TAMWORTH | 0-1 | L | 126 | | Alty | Ritson | Pritchard | Woodcock | Michael | Birchall | A.Wilson | Francis | Guest | Skeete | Mawson | Branch (9) |
| 15-Nov | A | WITTON ALBION | 0-4 | L | 478 | | Alty | Ritson | Pritchard | Woodcock | Michael | Birchall | A.Wilson | Mawson | Guest | Styles | Duffey | Ramsden (6) |
| 22-Nov | A | GOOLE TOWN | 1-2 | L | 333 | Styles | Alty | Ritson | Pritchard | Skeete | Ramsden | Francis | A.Wilson | McInnes | Styles | Woodcock | Mawson | Guest (10) |
| 13-Dec | H | GAINSBOROUGH TRINITY | 4-2 | W | 147 | Dobie(2), Pritchard, Styles | Alty | Pritchard | Ritson | McInnes | Ramsden | Burgess | A.Wilson | Birchall | Dobie | Styles | Duffey | Connor (6) |
| 26-Dec | A | NETHERFIELD | 1-2 | L | 242 | Birchall | Alty | Pritchard | McInnes | A.Wilson | Ramsden | Burgess | Birchall | Francis | Duffey | Dobie | Rennison | Michael (8) |
| 01-Jan | H | SOUTH LIVERPOOL | 2-0 | W | 323 | Duffey, Rennison(pen) | Alty | Pritchard | Mawson | McInnes | Ramsden | Burgess | Birchall | A.Wilson | Duffey | Dobie | Rennison | Francis (11) |
| 03-Jan | H | GOOLE TOWN | 0-0 | D | 211 | | Alty | Pritchard | Mawson | McInnes | Ramsden | Burgess | Birchall | A.Wilson | Duffey | Dobie | Rennison | Francis |
| 10-Jan | A | GRANTHAM TOWN | 1-3 | L | 359 | Rennison | Alty | Pritchard | Mawson | McInnes | Ramsden | Burgess | A.Wilson | Birchall | Duffey | Dobie | Rennison | Francis (10) |
| 24-Jan | A | OSWESTRY TOWN | 1-0 | W | 367 | Francis | Alty | Pritchard | Mawson | McInnes | Ramsden | Burgess | Birchall | A.Wilson | Francis | Dobie | Rennison | Skeete |
| 31-Jan | H | MORECAMBE | 1-1 | D | 189 | Birchall | Alty | Pritchard | Mawson | McInnes | Ramsden | Burgess | Birchall | A.Wilson | Francis | Dobie | Rennison | Ritson |
| 07-Feb | A | WORKINGTON | 0-4 | L | 385 | | Alty | Pritchard | McInnes | Ramsden | Woodcock | Ritson | A.Wilson | Dobie | Rennison | Mawson | Duffey | C.Wilson (11) |
| 14-Feb | H | MATLOCK TOWN | 2-2 | D | 216 | C.Wilson, Burgess | Ainscough | Pritchard | McInnes | Burgess | Woodcock | Ritson | Francis | A.Wilson | Dobie | Mawson | C.Wilson | Rennison (6) |
| 21-Feb | A | MARINE | 0-1 | L | 443 | | Alty | Whittaker | Mawson | Burgess | Ramsden | Johnson | Francis | McInnes | Woodcock | Dobie | C.Wilson | Pritchard |
| 28-Feb | H | BUXTON | 0-2 | L | 197 | | Alty | Whittaker | Mawson | Burgess | Ramsden | Johnson | Pritchard | McInnes | Francis | Dobie | C.Wilson | Woodcock (10) |
| 04-Mar | A | GATESHEAD | 2-0 | W | 222 | Sale, Towers | Alty | Pritchard | Mawson | Ritson | Burgess | Johnson | Sale | McInnes | Towers | Dobie | Birchall | Woodcock |
| 14-Mar | H | WITTON ALBION | 2-2 | D | 272 | Fielding(og), Pritchard | Alty | Pritchard | Mawson | Ritson | Burgess | Johnson | Sale | McInnes | Woodcock | Dobie | Birchall | Francis |
| 28-Mar | A | WORKSOP TOWN | 2-1 | W | 367 | Gerrard, Dobie | Alty | Pritchard | Mawson | Rothwell | Burgess | Johnson | Sale | McInnes | Gerrard | Dobie | Birchall | Woodcock (4) |
| 04-Apr | A | LANCASTER CITY | 1-0 | W | 193 | Birchall | Alty | Pritchard | Mawson | McInnes | Burgess | Johnson | Sale | Gerrard | Towers | Dobie | Birchall | Woodcock (9) |
| 08-Apr | H | RUNCORN | 1-3 | L | 483 | Dobie(pen) | Alty | Pritchard | Mawson | McInnes | Burgess | Johnson | Sale | Gerrard | Robins | Dobie | Birchall | Woodcock (9) |
| 11-Apr | H | MACCLESFIELD TOWN | 0-1 | L | 238 | | Alty | Pritchard | Mawson | McInnes | Burgess | Johnson | Sale | Gerrard | Towers | Dobie | Birchall | Robins (9) |
| 12-Apr | H | BURTON ALBION | 1-1 | D | 203 | Gerrard | Alty | Pritchard | Mawson | McInnes | Burgess | Johnson | Sale | Francis | Gerrard | Dobie | Birchall | Rothwell (8) |
| 17-Apr | A | SOUTH LIVERPOOL | 0-2 | L | 366 | | Ainscough | Pritchard | Woolf | McInnes | Burgess | Johnson | Sale | Gerrard | Woodcock | Dobie | Birchall | Robins (9) |
| 18-Apr | A | BURTON ALBION | 2-5 | L | 582 | Johnson(pen), Gerrard | Ainscough | Pritchard | Woolf | McInnes | Burgess | Johnson | Sale | Towers | Gerrard | Dobie | Birchall | Francis (8) |
| 20-Apr | H | GATESHEAD | 1-1 | D | 249 | McInnes | O'Neill | Pritchard | Mawson | McInnes | Michael | Johnson | Guest | Francis | Gerrard | Dobie | Birchall | Woolf |
| 23-Apr | H | NETHERFIELD* | 0-0 | D | 144 | | O'Neill | Pritchard | Mawson | McInnes | Michael | Johnson | Guest | Francis | Gerrard | Burgess | Robins | Dobie (7) |
| 29-Apr | H | KING'S LYNN | 2-0 | W | 175 | Birchall, Mawson | O'Neill | Pritchard | Mawson | Burgess | Michael | Johnson | Connor | McInnes | Gerrard | Dobie | Birchall | Francis |
| 30-Apr | A | GAINSBOROUGH TRINITY | 0-0 | D | 186 | | O'Neill | Pritchard | McInnes | Burgess | Michael | Johnson | Connor | Francis | Gerrard | Dobie | Robins | Alty (9) |
| 02-May | H | TAMWORTH | 2-2 | D | 210 | Birchall, Dobie | O'Neill | Pritchard | Mawson | McInnes | Michael | Johnson | Robins | Connor | Burgess | Dobie | Birchall | Francis (5) |

* Match originally played 27 Jan ended Southport 1 Netherfield 2 but was declared void as Netherfield fielded an ineligible player