# Geography Grade 7

# Term 1

## Contents

# SECTION A: MAP SKILLS

## Local maps and street maps

**Find home, school and places of interest on a map of the local area.**

People use maps to find their way around and to find interesting places. Most cities in South Africa have street maps. These maps are usually prepared as a book because showing a city on one sheet of paper would be too big to use.

## Using an index to find places

***Vocabulary***

***Index:*** *an alphabetical list of words, objects or places with page numbers, usually found at the back of a book, to help you find that item in a book.*

The index of street names below is from the Durban Street Guide.

The index shows the street name,

- the suburb where that street is,
- the page number where the street can be found and
- the grid reference, to help you find the street more easily.

**Activity 1**

Use the map index on page 3 to answer these questions.

1. On which page will you find Wipers Road?
2. On which page will you find William Nicol Street?
3. What is the grid reference for Wildebees Street?
4. In which suburb is Wiek Street?
5. In what suburb is Windsor Place?
6. You can see the name Wolfson Rd in the top right corner of the index. Why is this name there?

# Index to Street Names

Westway Rd

Wolfson Rd

| STREET NAME | SUBURB NAME | PG | GRID |
|---|---|---|---|
| Westway Rd | Douglasdale | 14 | DB 95 |
| Westwold Way | Saxonwold | 81 | DQ 99 |
| Westwood Ave | Melrose Nth | 56 | DO 103 |
| Wethered Rd | Greenside | 81 | DQ 97 |
| Weti St | Wattville | 115 | DZ 132 |
| Wewer Cl. | Crystal Pk | 65 | DM 140 |
| Wewer Rd | Birch Acres | 21 | DE 121 |
| Wewer Rd | Randpark Rdg | 30 | DK 88 |
| Wewervoël Rd | Helikon Pk | 71 | DU 57 |
| Wexford | Broadacres A.H. | 3 | CW 95 |
| Wexford | Dainfern | 3 | CV 95 |
| Wexford Ave | Parkview | 81 | DS 98 |
| Wexford Ave | Westcliff | 81 | DS 99 |
| Weyers St | Alrode Sth | 175 | EP 110 |
| Whale Cl. | Lawley | 185 | EU 73 |
| Whale Pl. | Lawley | 184 | EU 72 |
| Wheatley St | Regents Pk | 130 | EA 104 |
| Wheaton Rd | Benoni | 115 | DW 130 |
| Wheel St | Selby | 107 | DY 98 |
| Wheeler Peak St | Lenasia Sth | 200 | EV 79 |
| Wheeler St | Oatlands | 24 | DJ 64 |
| Whelan Cl. | Rivonia | 34 | DF 103 |
| Whirlwind St | Rhodesfield | 61 | DN 123 |
| Whisken Ave | Kyalami Est. | 6 | CV 105 |
| Whistlers Gate | Cedar Lakes | 3 | CY 94 |
| Whitaker St | Belgravia | 109 | DW 106 |
| Whitby Rd | Ferryvale | 206 | EY 154 |
| White | Parkdene | 114 | DZ 126 |
| White Ash St | Fourways Gdns | 3 | CX 96 |
| White Cr. | Rowhill | 119 | DZ 147 |
| White Rhino St | Mgantsa | 10 | CY 124 |
| White Rose St | Boltonia | 25 | DK 65 |
| White St | East Germiston | 111 | DX 115 |
| White Stinkwood St | Protea Glen | 123 | EE 70 |
| White-eye Ave | Princess | 52 | DO 77 |
| Whitehall St | Hurst Hill | 86 | DU 94 |
| Whitehaven Rd | Hazeldene | 133 | EC 116 |
| Whitehead St | Witfield | 87 | DU 122 |
| Whitehouse Ave | Farrarmere | 89 | DT 132 |
| Whitehouse Ave | Farrarmere | 90 | DT 133 |
| Whitford Rd | Klippoortje A.H. | 133 | EA 116 |
| Whitford Rd | Webber | 133 | EA 116 |
| Whitley Rd | Melrose Nth | 56 | DN 104 |
| Whitley St | Airfield | 90 | DT 133 |
| Whitman St | Farrarmere | 89 | DR 131 |
| Whitney Rd | Whitney Gdns | 57 | DM 108 |
| Whittaker Cl. | Ennerdale | 199 | EW 75 |
| Whittaker's Way | Bedfordview | 84 | DU 110 |
| Whittle Rd | Groeneweide | 157 | EF 123 |
| Whitworth Rd | Heriotdale | 110 | DX 109 |
| Whizana St | Etwatwa | 68 | DN 150 |
| Whizana St | Etwatwa | 68 | DP 152 |
| Whydah St | Crystal Pk | 65 | DL 140 |
| Wicklow Ave | Parkview | 81 | DR 98 |
| Wicklow Rd | Kenmare | 49 | DL 74 |
| Widcombe Pl. | Lone Hill | 4 | CZ 99 |
| Widgeon St | Florida Lake | 77 | DT 83 |
| Widgeon St | Lenasia | 145 | EK 75 |
| Widman St | Regents Pk | 130 | EA 104 |
| Widow St | Moteong | 10 | CY 121 |
| Wiedeman St | Klippoortje A.L. | 134 | EB 119 |
| Wiehman Cr. | Daveyton | 66 | DP 144 |
| Wiek St | Bardene | 88 | DT 125 |
| Wieke St | Sharonlea | 13 | DE 92 |
| Wiellewale St | Atlasville | 63 | DP 129 |
| Wierda Rd East | Sandown | 34 | DK 103 |
| Wierda Rd East | Wierda Valley | 56 | DL 103 |
| Wierda Rd West | Wierda Valley | 56 | DL 102 |
| Wiese St | Rynsoord | 117 | DV 139 |
| Wigan Ave | Crown Gdns | 128 | ED 96 |
| Wight St | Roodepoort | 76 | DR 79 |
| Wilbers Rd | Estera | 134 | EC 119 |
| Wilcox St | Towerby | 130 | EC 101 |
| Wild Chestnut St | Protea Glen | 123 | EE 73 |
| Wild Chestnut St East | Protea Glen | 122 | EE 72 |
| Wild Olive Rd | Fourways Gdns | 3 | CX 95 |
| Wild Olive St | Greenfields | 188 | EU 111 |
| Wild Olive St | Winchester Hills | 129 | ED 98 |
| Wild Peach Cr. | Fourways Gdns | 3 | CX 95 |
| Wild Peach St | Protea Glen | 123 | EE 74 |
| Wild Pear | Ebony Pk | 8 | CX 116 |
| Wild Pear Ave | Dowerglen | 58 | DP 112 |
| Wild Pear Cr. | Fourways Gdns | 3 | CX 95 |
| Wild Plum St | Greenfields | 188 | EU 111 |
| Wildcat St | Alexandra | 35 | DJ 108 |
| Wilde Amandel Ave | Roodekrans | 27 | DK 76 |
| Wilde Amandel Ave | Roodekrans | 50 | DL 77 |
| Wilde Amandel Ave | Wilro Pk | 50 | DL 78 |
| Wilde Amandel St | Ferndale | 32 | DG 93 |
| Wilde Rd | Kenmare | 27 | DK 75 |
| Wilde Rd | Noordheuwel | 27 | DK 74 |
| Wildebees Rd | Greenhills (De Fontein) | 71 | DQ 59 |
| Wildebees Rd | Verwoerdpark | 132 | EE 112 |
| Wildebees St | Rant-en-dal | 26 | DG 69 |
| Wildebeest Ave | Leondale | 156 | EJ 118 |
| Wildebraam St | Weltevreden Pk | 52 | DM 88 |
| Wildepruim St | Esther Pk | 38 | DK 118 |
| Wilderness | Maokeng | 10 | CW 122 |
| Wildesering Ave | Weltevreden Pk | 52 | DM 87 |
| Wildesering St | Elspark | 135 | EE 124 |
| Wildevy Ave | Glen Marais | 40 | DF 126 |
| Wildevy Ave | Roodekrans | 50 | DL 77 |
| Wildevy Cr. | Van Dyk Pk | 137 | EC 131 |
| Wildevy St | Brackendowns | 174 | EL 106 |
| Wildevy St | Dalpark | 137 | EB 132 |
| Wildplum St | Roodebult | 156 | EK 118 |
| Wiletta St | Hazeldene | 133 | EC 116 |
| Wilfred Ave | Alan Manor | 150 | EF 95 |
| Wilfred Ave | Ohenimuri | 203 | EZ 89 |
| Wilge Ave | Dal Fouche | 140 | ED 144 |
| Wilge Ave | Gallo Manor | 35 | DF 105 |
| Wilge Rd | Alsef A.H. | 29 | DG 84 |
| Wilge Rd | Kleinfontein A.H. | 89 | DR 130 |
| Wilge Rd | River Club | 33 | DF 100 |
| Wilge St | Witfield | 87 | DT 122 |
| Wilge St | Woodmere | 86 | DT 118 |
| Wilgeboom Dr. | Boskruin | 31 | DG 90 |
| Wilgeboom Rd | Allen Grove | 39 | DG 123 |
| Wilger Ave | General Alberts Pk | 154 | EH 111 |
| Wilger St | Pomona A.H. | 40 | DH 128 |
| Wilgenrivier Ave | Leachville | 138 | EA 133 |
| Wilgerood Rd | Helderkruin | 50 | DM 79 |
| Wilgerood Rd | Klopfendal | 51 | DN 81 |
| Wilgerood Rd | Roodekrans | 49 | DL 76 |
| Wilgerood Rd | Wilro Pk | 50 | DM 78 |
| Wilgespruit | Lindhaven | 50 | DO 79 |
| Wilgespruit Cr. | Strubensvallei | 51 | DN 83 |
| Wilhelm St | Roodepoort | 76 | DR 79 |
| Wilhelmina Ave | Constantia Kloof | 51 | DO 84 |
| Wilhelmina Pl. | Halfway Gdns | 7 | CW 110 |
| Wilhelmina St | Casseldale | 142 | ED 152 |
| Wilhelmina St | Troyeville | 108 | DV 103 |
| Wilhelmus St | Meadowbrook | 85 | DR 115 |
| Wilkens St | Sherwood Gdns | 118 | DY 141 |
| Wilkie St | Constantia Kloof | 52 | DP 85 |
| Wilkinson Ave | Glenvista | 152 | EG 103 |
| Will Scarlet Rd | Robindale | 54 | DL 95 |
| Willa Rd | Birchleigh Nth | 21 | DB 123 |
| Willar Dr. | Northcliff | 53 | DM 91 |
| Willem de Klerk St | Grobler Pk | 75 | DR 75 |
| Willem Rd | Wilbostsdal A.H. | 71 | DQ 57 |
| Willem van Zyl Ave | Minnebron | 161 | EF 137 |
| Willem Wynant Pl. | Constantia Kloof | 52 | DP 85 |
| Willemite St | Ennerdale | 200 | EX 78 |
| Willey Ave | Selection Pk | 164 | EG 149 |
| Willey Ct | Selection Pk | 164 | EG 149 |
| Willey St | Dalview | 139 | EB 137 |
| William Adolph Ave | Geluksdal | 180 | EQ 139 |
| William Greef St | Reiger Pk | 113 | DZ 124 |
| William Hills Ave | Denlee | 133 | EA 115 |
| William Kerby La. | Village Main | 108 | DY 102 |
| William La. | Kleve Hill Pk | 15 | DB 100 |
| William Mosterd Pl. | Dawn Pk | 158 | EJ 126 |
| William Nicol Dr. | Beverley | 4 | CX 97 |
| William Nicol Dr. | Beverley A.H. | 4 | CX 97 |
| William Nicol Dr. | Bryanston | 15 | DD 98 |
| William Nicol Dr. | Craighall | 55 | DL 99 |
| William Nicol Dr. | Glenadrienne | 33 | DJ 99 |
| William Nicol Dr. | Norscot | 15 | DB 97 |
| William Nicol Dr. | Riepen Pk | 55 | DL 99 |
| William Nicol St | Florida Pk | 78 | DR 85 |
| William Rd | Elmapark | 85 | DQ 114 |
| William Rd | Illiondale | 59 | DM 116 |
| William Rd | Norwood | 82 | DQ 104 |
| William Rd | Poortview | 28 | DJ 79 |
| William St | Sydenham | 83 | DQ 107 |
| Williams Cl. | Ennerdale | 199 | EV 74 |
| Williams Rd | Bedfordview | 84 | DS 112 |
| Williams Rd | Beyers Pk | 88 | DU 126 |
| Williams St | Dobsonville | 102 | DZ 80 |
| Williams St | Reiger Pk | 113 | DZ 122 |
| Williamson Rd | Dunnottar | 182 | EQ 148 |
| Willie du Toit St | Berton Pk | 112 | DV 120 |
| Willie Rd | Birch Acres | 20 | DC 120 |
| Willie St | Berea | 82 | DT 102 |
| Willie St | Sophiatown | 79 | DS 92 |
| Willie Venter | Witfield | 87 | DU 121 |
| Willis Rd | Blairgowrie | 33 | DK 97 |
| Willoughby Rd | Selcourt | 164 | EK 150 |
| Willoughby St | Kenmare | 26 | DK 72 |
| Willow Ave | Atholl | 56 | DM 104 |
| Willow Ave | Craigavon A.H. | 3 | CZ 95 |
| Willow Brook | Melrose | 56 | DO 104 |
| Willow Cl. | Buccleuch | 18 | DC 109 |
| Willow Cl. | Kelland | 53 | DM 91 |
| Willow Cl. | Kyalami Est. | 6 | CV 106 |
| Willow Cr. | Eldorado Pk | 148 | EJ 85 |
| Willow Cr. | Kagiso | 74 | DS 71 |
| Willow Cr. | St Andrews | 84 | DQ 111 |
| Willow Pl. | Hurlingham | 33 | DJ 99 |
| Willow Pl. | Kelvin | 35 | DG 107 |
| Willow Rd | Benoni A.H. | 42 | DJ 136 |
| Willow Rd | Carlswald | 6 | CV 107 |
| Willow Rd | Eastleigh | 59 | DO 115 |
| Willow Rd | Everleigh | 88 | DU 126 |
| Willow Rd | Northcliff | 53 | DP 90 |
| Willow Rd | Primrose | 85 | DU 115 |
| Willow Rd | Waterval Est. | 80 | DQ 93 |
| Willow St | Dalpark | 138 | EC 136 |
| Willow St | Kempton Pk | 61 | DL 124 |
| Willow St | Lenasia | 166 | EL 76 |
| Willow St | Plantation | 114 | DX 125 |
| Willow Ter. | Westdene | 115 | DV 131 |
| Willow Way | Northcliff | 80 | DQ 93 |
| Willowbrook Pl. | Sandown | 34 | DK 103 |
| Willowgrove Rd | Dainfern | 3 | CV 95 |
| Willowmore Rd | Eldorado Pk | 148 | EG 86 |
| Willowood Cr. | Jukskei Pk | 14 | DB 93 |
| Willows-Munro St | Morninghill | 84 | DS 110 |
| Willowvale Cl. | Paulshof | 16 | DB 103 |
| Willowvale Rd | Blairgowrie | 54 | DM 96 |
| Willowview Dr. | Northcliff | 53 | DM 91 |
| Willowwood Cl. | Bryanston | 33 | DG 99 |
| Willson St | Fairland | 53 | DM 90 |
| Willson St | Northcliff | 53 | DO 89 |
| Willys St | Eden Pk | 188 | ES 111 |
| Wilma St | Montclare | 79 | DT 90 |
| Wilmeria St | Hazeldene | 133 | EB 116 |
| Wilmington Cr. | Lyndhurst | 57 | DN 108 |
| Wilson | Selcourt | 164 | EK 150 |
| Wilson Rd | Chislehurston | 56 | DM 102 |
| Wilson St | Finetown | 200 | EW 79 |
| Wilson St | Hazeldene | 133 | EC 116 |
| Wilson St | Manufacta | 76 | DQ 79 |
| Wilson St | Witfield | 86 | DT 120 |
| Wilstead St | Benoni | 90 | DU 134 |
| Wilters St | Cruywagen Park | 135 | ED 121 |
| Wilton Ave | Bryanston | 15 | DC 100 |
| Wilzen St | Eastvale | 93 | DS 146 |
| Wimbledon Rd | Brixton | 106 | DV 96 |
| Wimbledon Rd | Lenasia Sth | 186 | EU 80 |
| Wimbledon Rd | Unaville A.H. | 187 | EU 81 |
| Wimborne Ave | Silverfields | 49 | DM 74 |
| Wimbrel Cr. | Riverlea | 106 | DY 94 |
| Winburg Rd | Sth Hills | 131 | EB 107 |
| Winchester Cl. | Bryanston | 33 | DF 97 |
| Winchester Rd | Douglasdale | 14 | DC 96 |
| Winchester Rd | Parktown | 81 | DT 99 |
| Winchester St | Westdene | 80 | DT 95 |
| Windeena Ave | Pine Pk | 54 | DN 95 |
| Windermere Ave | Lakeside | 37 | DJ 113 |
| Windermere Ave | Strubenvale | 142 | EB 150 |
| Windermere Dr. | Farrarmere | 89 | DT 131 |
| Windermere Dr. | Lakefield | 89 | DT 132 |
| Windhoek Pl. | Isiphetweni | 21 | DA 122 |
| Windhoek Pl. | Vosloorus | 190 | ES 120 |
| Windjammer | Laser Pk | 30 | DG 86 |
| Windly Lake | Cedar Lakes | 3 | CY 93 |
| Windram St | West Krugersdorp | 25 | DJ 65 |
| Windsor | Protea Sth | 145 | EG 76 |
| Windsor Pl. | Glenanda | 129 | EE 100 |
| Windsor Rd | Auckland Pk | 80 | DT 96 |
| Windsor Rd | Luipaardsvlei | 48 | DL 69 |
| Windsor Rd | Nigel | 205 | EX 152 |
| Windsor Rd | Selcourt | 164 | EK 149 |
| Windsor Rd | West Village | 47 | DL 68 |
| Windsor St | Gerdview | 86 | DS 117 |
| Windsor St | Symhurst | 85 | DS 116 |
| Windsor Way | Olivedale | 13 | DD 92 |
| Windsurf St | Weltevreden Pk | 52 | DP 87 |
| Wingate Ave | Dawnview | 85 | DT 114 |
| Wingerd St | Birch Acres | 20 | DD 119 |
| Wingfield Ave | Birdhaven | 56 | DO 102 |
| Winifred St | Chrisville | 129 | ED 99 |
| Winifred St | Discovery | 77 | DQ 82 |
| Winnie Havoloh | Tedstoneville | 134 | EA 119 |
| Winnie St | Regents Pk | 130 | EA 104 |
| Winnie St | Tsakane | 192 | ER 139 |
| Winnipeg Ave | Spartan | 61 | DM 121 |
| Winnipeg St | Raceview | 154 | EF 110 |
| Winslow Rd | Glenhazel | 57 | DO 108 |
| Winslow Rd | Parkwood | 81 | DQ 99 |
| Winston Ave | Dunkeld West | 56 | DN 101 |
| Winston Ave | Rivonia | 16 | DC 102 |
| Winston Ave | Robin Hills | 54 | DL 93 |
| Winston Ave | Robindale | 54 | DL 94 |
| Winston St | Homestead Pk | 106 | DW 95 |
| Winter Ave | Bedfordview | 85 | DR 113 |
| Winter Pl. | Lone Hill | 4 | CY 99 |
| Winter Rd | Rivonia | 16 | DC 103 |
| Winter St | Noordgesig | 104 | DZ 88 |
| Winterberg | Bosmont | 79 | DU 91 |
| Winterberg | Northcliff | 79 | DR 91 |
| Winterberg Ave | Eastvale | 93 | DU 147 |
| Winterberg Rd | Finsbury | 96 | DW 54 |
| Winterberg St | Alrode Sth | 188 | EQ 109 |
| Winterberg St | Leachville | 138 | EB 133 |
| Winterhoek Ave | Oakdene | 130 | EE 101 |
| Winterkoring Ave | Birch Acres | 21 | DD 121 |
| Winze Dr. | Fleurhof | 104 | DW 85 |
| Winze Dr. | Stormill | 104 | DV 86 |
| Wipers Rd | Klippoortje A.H. | 134 | EA 118 |
| Wisani St | Chiawelo | 146 | EG 78 |
| Wisbeck Rd | Mulbarton | 152 | EH 102 |
| Wisconsin Ave | Eldorado Pk | 147 | EG 83 |
| Wishart St | Krugersdorp Nth | 25 | DJ 67 |
| Wistaria Rd | Primrose | 111 | DV 114 |
| Wistaria St | Esther Pk | 38 | DK 118 |
| Wistaria St | Van Dyk Pk | 137 | ED 130 |
| Wisteria St | Brackendowns | 174 | EL 106 |
| Wisteria St | Lenasia | 167 | EL 77 |
| Wisteria St | Spoorhill | 148 | EJ 85 |
| Wit | Witfontein | 22 | DE 128 |
| Wit Deep Rd | Boksburg | 112 | DV 120 |
| Wit Deep Rd | Delmore Pk | 112 | DX 119 |
| Wit Rd | Selcourt | 164 | EJ 150 |
| Wit Rd | Springs | 142 | ED 150 |
| Wit St | Marlands | 86 | DU 119 |
| Witberg Pl. | Claremont | 79 | DT 90 |
| Witbos St | Brackendowns | 174 | EM 106 |
| Witchweed Ave | Roodekrans | 50 | DL 77 |
| Witdoring | Palm Rdg | 188 | ET 112 |
| Witdoring Ave | Weltevreden Pk | 52 | DL 88 |
| Witdoring Rd | Sonneglans | 31 | DF 91 |
| Witels Ave | Rand Leases | 77 | DU 83 |
| Witels Ave | Weltevreden Pk | 52 | DM 88 |
| Wit-els Ave | Pomona A.H. | 40 | DH 127 |
| Witels Pl. | Randpark Rdg | 31 | DJ 91 |
| Witels St | Vlakfontein | 42 | DK 135 |
| Wit-els St | Bosmont | 79 | DU 90 |
| Witgatboom Ave | Glen Marais | 40 | DG 126 |
| Withaak | Elspark | 135 | EC 123 |
| Withaak Rd | Palm Rdg | 189 | ET 114 |
| Withaak St | Roodekrans | 28 | DK 77 |
| Witheide Ave | Leachville | 138 | EA 133 |
| Witherite Rd | Ennerdale | 200 | EX 79 |
| Withok Rd | Withok Est. | 161 | EJ 139 |
| Without Ave | Weltevreden Pk | 52 | DM 88 |
| Withycombe St | Booysens | 107 | DZ 99 |
| Witivoor St | Brackendowns | 174 | EN 107 |
| Witklip Rd | Bloubosrand | 13 | DA 91 |
| Witkoppen Rd | Fourways | 3 | CZ 95 |
| Witkoppen Rd | Jukskei Pk | 14 | DA 93 |
| Witkoppen Rd | Magaliessig | 15 | DA 98 |
| Witkoppen Rd | Nth Riding | 13 | DA 92 |
| Witkoppen Rd | Paulshof | 16 | DB 102 |
| Witkoppen Rd | Sunninghill | 17 | DB 105 |
| Witkoppen Rd | Waterford | 14 | DA 93 |
| Witmosberg St | Eldorado Pk | 148 | EG 86 |
| Witney St | Bryanston | 33 | DF 98 |
| Witney St | Country Life Pk | 33 | DG 98 |
| Witogie Rd | Birch Acres | 20 | DC 120 |
| Witogie St | Bromhof | 31 | DH 91 |
| Witogie St | Randpark Rdg | 30 | DJ 87 |
| Witpeer St | Kenmare | 27 | DJ 75 |
| Witpeer St | Elspark | 135 | ED 123 |
| Witpendoring St | Roodekrans | 28 | DK 78 |
| Witpoort Rd | Rietfontein | 140 | EE 143 |
| Witpoortjie Rd | Rand Collieries | 139 | ED 137 |
| Wits Rifles Rd | Germiston | 133 | EC 115 |
| Witsering Ave | Glen Marais | 40 | DF 126 |
| Witsering St | Noordgesig | 104 | DZ 88 |
| Witstam St | Weltevreden Pk | 52 | DL 86 |
| Witstinkhout | Sonneveld | 138 | ED 136 |
| Witstinkhout Ave | Bassonia | 152 | EG 104 |
| Witstinkhout Ave | Glen Marais | 40 | DH 127 |
| Witteberg St | Helderkruin | 50 | DM 79 |
| Witteberg St | Noordheuwel | 26 | DG 71 |
| Witteboom St | Brackendowns | 174 | EM 106 |
| Witton Rd | Founders Hill | 37 | DK 116 |
| Witwatersrand Ave | Strubensvallei | 51 | DN 83 |
| Witwatersrand St | Lenasia Sth | 200 | EV 79 |
| Witzenberg St | Eldorado Pk | 148 | EG 86 |
| Witzieshoek St | Diepkloof | 127 | EA 90 |
| Wizard St | Germiston | 111 | DW 114 |
| Wm. Soudien | Eldorado Pk | 147 | EF 84 |
| Woburn Ave | Benoni | 115 | DV 132 |
| Woburn St | Geluksdal | 180 | EN 138 |
| Wofram Cr. | Ennerdale | 200 | EX 78 |
| Wol St | Aureus | 71 | DU 58 |
| Wolfaardt St | Witfield | 86 | DU 120 |
| Wolff Ave | Primrose | 111 | DV 113 |
| Wolff St | Kempton Pk | 39 | DK 123 |
| Wolfgang | Norwood | 82 | DR 104 |
| Wolfram St | Migson Triangle | 200 | EX 80 |
| Wolfson Rd | Mapleton A.H. | 179 | ED 135 |

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# Using a street map to find places and describe a route

Street maps help you to find places and to describe the **route** from one place to another. Each street has a name to help you explain which route to take. The point where the streets cross each other is called an **intersection.**

A street map has two features to help you find things:

˜ **grid lines** drawn on the maps to form **grid squares**

˜ an **index** at the back.

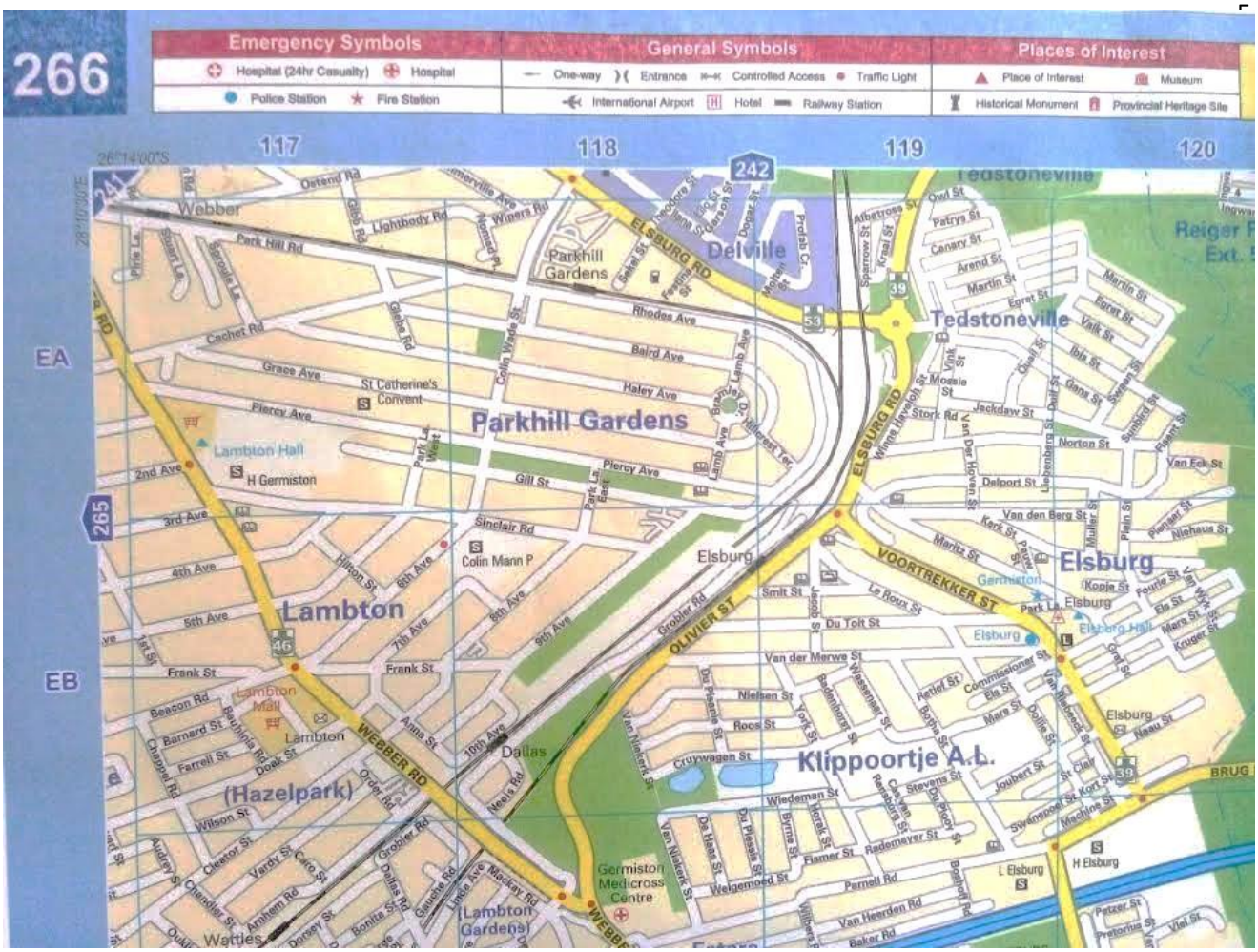
***Vocabulary***
***Grid lines:*** *vertical and horizontal lines drawn on a map in a grid shape.*
***Grid squares:*** *the squares (sometimes rectangles) on a map formed by grid lines*
***Grid reference:*** *using numbers and letters on the grid lines to refer to a specific place on a map.*

## Activity 2

Study the street map of Germiston on page 5 and answer the following questions:

1. Give the grid squares for:
   a. Lambton Mall
   b. Colin Mann School
   c. Germiston Medicross Centre
2. Name the main road in grid square EB 117.
3. Name the suburb in grid square EA 118.
4. Name the grid square where there is a convent.
5. Draw the symbol for:
   a. Police station
   b. Place of Interest
   c. Hotel

   Remember to use the correct colours.




Street map of Germiston-Map Studio Street Guide Gauteng page 266

# Sketching maps and explaining routes

***Vocabulary***

***Sketch map:*** *rough drawing that looks like a map.*

A sketch map is not as detailed as a proper map. It is a rough drawing that shows only important details that will help a person find the way**.**

# SECTION B: Map conventions

Most maps contain four conventions to make them easier to use. The conventions are:

**1. A title**

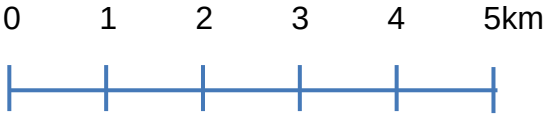
The title tells you the name of the place or the most important place on the map

**2. A map key (or legend) and symbols**


A map key explains the symbols used on the map. The key above shows a simple map key. Look for other map keys in your atlas.

**3. A scale**

***Vocabulary***
***Line scale**: a line that looks a bit like a ruler, which is drawn on a map to show how much smaller the map is than the real distance on the ground.*




**4. A north direction arrow and the four cardinal points**

A north direction arrow on a map tells you which way to hold your map. You must be able to point your map correctly towards north. The four **cardinal points** are the four main points on a compass: north, south, east and west.

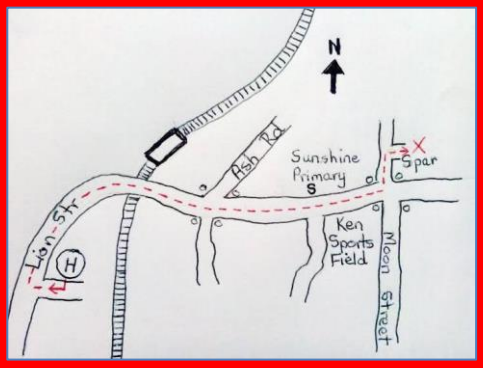
## Activity 3

Complete the following 8 point compass rose in your workbook.

## Activity 4

**Sketch maps to show the route from one place to another.**

Study the sketch map below and answer the questions.




1. Using the 8 compass points, give the direction from the Ken Sports Field to:
   a. Sunshine Primary
   b. The railway station
   c. Spar
2. Why are only some street names on the sketch map?
3. List 2 differences between the sketch map above and the street map of Germiston on page 5.
4. Draw the symbols used to show:
   a. traffic lights
   b. the railway
   c. the hospital
5. Give accurate and precise directions from the hospital to the Spar.
   Begin as follows: Turn right out of the hospital.

## Activity 5

**Draw a sketch map of a route.**

Draw a sketch map of a route from your classroom to the tuck shop. Follow the steps below.

1. Walk the route and make notes and rough sketch of what you see. Include:
   - the main places where they need to turn and the direction
   - some obvious features that will help them recognise where they are
   - any grassy areas, tarred areas or steps
   - anything else that will help them find their way.
2. Work out the approximate distance of one part of the route. You can estimate distances between places in metres. A long pace is about one metre. A netball court is 30 metres long, whereas a soccer field is 100 metres long. When you draw your sketch map, show the length in metres. (Round off the distance if necessary.)
3. Now draw your sketch map. Include all the information you recorded. Also add a title, a key and your measured distance (a scale).
4. Exchange route maps with another group. Pretend that you are completely new in the school and see if you can follow the route.

# Determine and show compass directions on a local sketch map

***Vocabulary***
***Analogue Watch****: a watch that tells the time with hands*
***Bisecting*** *: Dividing an angle in two equal parts*

A map is usually drawn with north pointing to the top of the page and the north-south line parallel to the side of the page. If this is not the case, a north-pointing arrow will be shown on the map.

# How to find north in the southern hemisphere

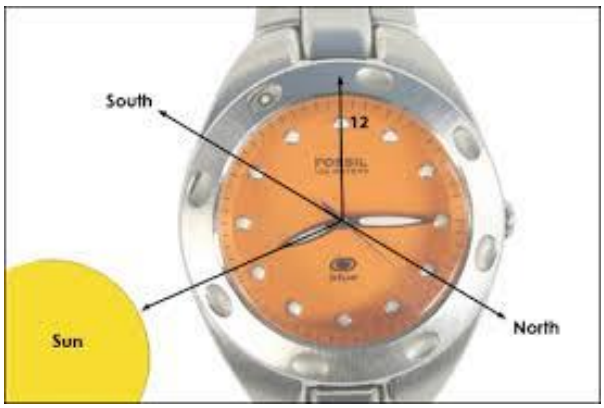
**Method 1**

1. Go outside your classroom to an open space.
2. Decide where the sun rises and where the sun sets.
3. Now point to the east (sunrise) with your right arm and to the west (sunset) with your left arm. North is directly in front of you.

**Method 2**

You could also use an **Analogue Watch** and a thin stick like a toothpick or match to find "True North".

1. Go outside your classroom to an open space.
2. Hold your watch steady or place it on a level piece of ground.
3. Hold the toothpick or match vertically over the number 12 on the watch. It will cast a straight line shadow.
4. Turn the watch until the shadow falls across the number 6, crossing over the centre of the watch.
5. The north-south line is the line **bisecting** the angle between the hour hand and the shadow line.



**Activity 6**

1. Go back to your classroom. Draw a simple sketch plan of your classroom. Show the door, windows, any cupboards, your teacher's desk and mark the position of the rows of desks.
2. Now add in the four map conventions – a title, scale, key and north direction arrow.

# Explaining a route verbally and estimate distances

Giving clear and simple directions is an important skill that you need to develop. You could use phrases like:

✧turn left or turn right

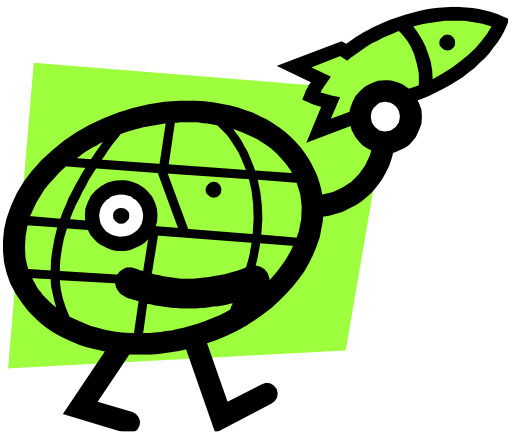
✧go straight for 10 metres or 3 street blocks

When you explain a route, you need to give the person an indication of roughly how far it is.

**Activity 7**

**Explain the route verbally**

1. Work in pairs. Your teacher will give you a route to explain verbally. You will have 5 minutes to prepare, before explaining the route to another group. Remember to give them an estimate of the distance they will need to walk.
2. Discuss whether the directions given were clear enough. Did the group understand where to go? How could the learners improve their verbal directions? Did they give a good estimate of distance?



# Section C: FORMAL ASSESSMENT

## Project: Draw a sketch map of your local area

***Vocabulary***
***Land use*** *- how people use the land, e.g. for farms, houses, factories.*

**Instructions**

In this project, you will draw a sketch map of the area around your home or school. If you live in an urban area, your map should cover at least two streets in all directions from your home. If your area is not very complicated, include more. Try to include all the types of places found in your area, for example: roads, open green spaces, small shopping areas, a post office, a police station, and so on. If you live in a rural area then you should include a larger area.

You will need at least two weeks to complete this project. You will learn more mapping skills during that time and you can use these new skills to help you.

Remember to:

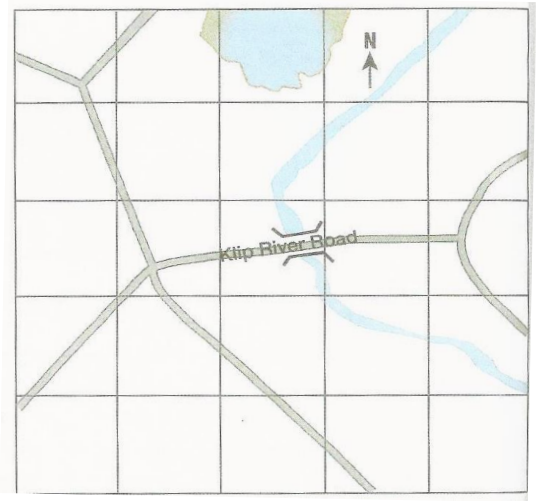
- work **very accurately**
- include plenty of detail
- use all four map conventions
- make sure that your map is **drawn to scale**
- draw places **accurately** and in the **correct position**
- use colour, especially for the key.

**Guidelines to follow when drawing your sketch map**

1. Walk around your sketch map area. Make notes about the elements such as:
    - different land uses, for example: parks, factories, shops, sports facilities, grazing area, rivers and hills
    - different kinds of vegetation
    - buildings and other interesting structures

- emergency services if there are any in your area
- public facilities like swimming pools and libraries
- the names of roads, places and shops.

2. While you walk around your area, start sketching the whole area so you can see how it all fits together. You can always go back and check things later.
3. Also, while you are walking around, the first time or later, measure 100 metres between two points that you know, so you can create a line scale later (maybe 1cm will represent 50m or 100m).
4. Now go home and start drawing your sketch map. Draw a frame on a piece of paper. Use a pencil and ruler to draw a grid inside the frame (draw the lines lightly). The grid will help you to draw places in the correct place on your sketch map.

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5. First, try to get the shape right, so that some streets are not too long and others too short – keep everything to the same scale. Also, try to get the size right. Work out what scale you will use and make sure your map fits on your piece of paper, and is not cramped up in the middle.

## Include symbols, key and scale on your sketch map

Important elements to include on your sketch map are a map key with symbols and a scale. Create symbols for the main elements on your map and show them in the key with the correct label.

## Record your observations of land use and different kinds of vegetation

Show different ways the land is used on your sketch map, e.g. buildings, farms, industry, open space, parks and kinds of vegetation.

Here are some photos of land uses. Use these ideas to help you identify and include different land uses in your sketch map.

The central area of a town has shops and a bank/post office/hotel.

There is more space for agricultural land use outside a town

Residential land use is usually located around the town centre.

Manufacturing takes place in another part of town away from where people live.

## Show the four cardinal compass directions on your sketch map

Use the information you learnt about how to show compass directions and the four cardinal points, and include the cardinal compass directions on your sketch map.

**Project rubric**

| Criteria | Mark Allocation | My mark |
|---|---|---|
| The local area is named. (suburb)<br>The frame has been drawn.<br>The grid squares have been drawn inside the frame. (lightly) | 3 | |
| Main roads or paths have been marked. | 3 | |
| Symbols have been drawn on the map to represent landmarks and places of interest. | 4 | |
| The symbols have been explained in a key on the map. | 4 | |
| The sketch map has symbols to show land use.<br>These are shown on the key. | 3 | |
| The four compass points are shown. | 2 | |
| The line scale has been calculated accurately and drawn on the sketch map. | 5 | |
| The sketch map has a clear and accurate title. | 1 | |
| General appearance and neatness | 5 | |
| **TOTAL** | **30** | |

# Section D: Distance and scale

## Map scales

On most street maps, a distance of 1cm on the map is about 400 metres on the ground. But, on smaller scale maps that show a whole city on one sheet, 1cm on the map might represent about 4km on the ground. Therefore, the scale on the map of the whole city is 10 times smaller than the scale on a street map.

When you draw maps of places, you need to show things smaller than they are. However, you need to be able to see on the map how far distances really are. Imagine packing lunch in the car and getting ready for a long journey, and arriving in 10 minutes, or going to a friend's house for tea and walking all day to get there.

These are some of the reasons why you need to able to calulate distances from maps.

# Line scales and word scales

0 10 20 30 40 50km

Line scale:

Word scale: 1 cm on the map represents 10 km on the ground.

0 200 400 600 800 1000m

Line scale:

Word scale: 1 cm on the map represents 200 m on the ground.

## Activity 8


Figure 2: A map of the Eastern Cape

1. Where is the scale on this map?
2. What type of scale is represented on the map?
3. Write out the scale in words.
4. Measure the shortest distance between Rustenburg and Potchefstroom.
5. How many centimetres is this on the map?
6. What is the distance on the ground?
7. Draw the scale exactly the same size as it is on the map.

# Word scales

A word scale explains in words what the scale is. It is a simple statement, e.g. 1 cm represents 100 km. This means that 1 cm on the map represents 100 km on the ground.

***Vocabulary***
***Direct :*** *going straight from one place to another along the shortest route.*
*A direct line between two places is a straight line.*

## Activity 9

A. Refer to the map of the Northern Cape.

1. Explain the scale on the map in words. (1)
2. Draw a line scale exactly the same size as it is on the map. (1)
3. Use a ruler to measure the direct distance between:
   a. Calvinia to Carnarvon
   b. Upington to Kenhardt
   c. Prieska to Hopetown
   d. Carnarvon to Victoria West
   e. Hopetown to Kimberley (5)
4. Hint: calculate as follows: _____ cm X _____ km =_____km
   Calculate the straight line distances between:
   a. De Aar to Hopetown
   b. Upington to Kuruman
   c. Springbok to Pofadder
   d. Victoria West to Noupoort
   e. Kimberley to Upington (10)

B. Draw a line scale to show a scale of 1 cm represents 75 km. The line scale should cover a distance of 600 km.
(3)

**TOTAL: 15**

# 28 South Africa's provinces Northern Cape


national route
arterial/main road
secondary road
railway
international boundary
provincial boundary
built-up area
river
perennial pan
dry pan
protected area
airport

NAMIBIA neighbouring country
FREE STATE neighbouring province
KIMBERLEY provincial capital
Orange dam/river
VAALBOS nature reserve

| Facts about Northern Cape | Northern Cape | South Africa |
|---|---|---|
| Population 1996 | 840 321 | 40,7 million |
| Share of national population % | 2 | 100 |
| Area in km² | 361 830 | 1 219 090 |
| Level of urbanization % | 77,1 | 53,5 |
| Children under 15 years old % | 33 | 34,2 |
| Matric pass rate % | 64,3 | 48,9 |
| Illiteracy: adults over the age of 20 years % | 43 | 38 |
| Earning less than R500 per month % | 42 | 26 |
| Living in informal dwellings % | 14 | 11,2 |
| Without electricity % | 21,5 | 37 |
| Tap in dwelling % | 49,7 | 41,8 |
| Phone / cell in dwelling % | 30,8 | 38,2 |
| Number of doctors per 10 000 population | 2 | 2,9 |
| Motor vehicle theft rate per 100 000 population | 47,1 | 201,6 |



OXFORD Intermediate Atlas for Southern Africa page 28

# Different scales for different maps

## Large scale maps

Local street maps are examples of large scale maps. The area being represented by the map has been scaled down less. The scale on a street guide could be: 1 cm on the map represents 100 m on the ground.


A street map is an example of a large scale map.

## Small scale maps

A map showing a large area is an example of a small scale map. A small scale map shows **more** of the area but in **less** detail. There is not enough space to include all the towns and streets. The scale on a map of South Africa could be: 1 cm on the map represents 250 km on the ground.


The world map is an example of a small scale map

# Activity 10 – comparing scales

Map of South Africa


Map of the World

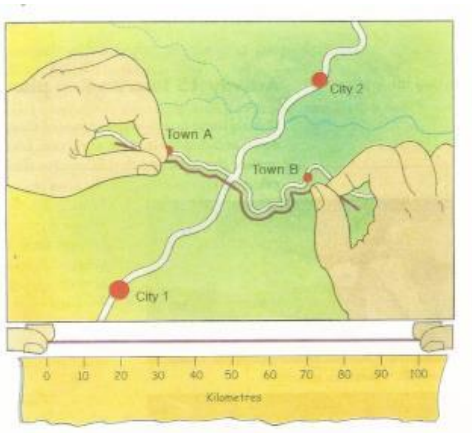

1. Which map has the largest scale of the two?
2. Explain your answer for number 1.
3. Name two things that appear on both maps.
4. Which map shows more details of South Africa? Give two examples to justify your answer.

# How to measure indirect distances on a street map

Most routes between places are not straight lines. Most roads are curved, with lots of twists and turns. To measure these indirect routes we use a piece of string or thread.

Mark the string at point A, work your way along the string from point A to point B, and make another mark on the string at point B. Now lay out the string straight along the line scale OR measure the distance on your ruler and work out the distance using the scale.

Why is it not a good idea to use wool to measure a curved distance?

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***Vocabulary***
***Estimate****: a rough calculation or a good guess of the* ***amount*** *or value of something.*

# Calculating distances on maps (direct and indirect routes)

**Use the scale to estimate distances on a map**

**Check estimates with accurate measurement**

When you use a map, you don't always need to measure the distance exactly. Often, you only need an **estimate,** rather than an exact measurement. Estimating a distance on a map is a skill that you can learn. The more you practise estimating, the more accurate your measurements will become.

**Activity 11**

Refer to the map of the Northern Cape on page 17

1. Estimate the distances between the places on the map in kilometres and write it in the 2nd column.
2. Only once you have estimated all the distances, do you check your estimates with accurate measurements (column 3).

| Places | Estimates | Actual measurement |
|---|---|---|
| Kenhardt to Pofadder | _____km | _____km |
| Uppington to Prieska | _____km | _____km |
| Pofadder to Calvinia | _____km | _____km |
| Kimberley to Kuruman | _____km | _____km |
| Richmond to Carnarvon | _____km | _____km |

# Section E: Current events

## Places in the news on a world map

Every day there are reports and stories in the news to do with geography: disasters, world sport tours, weather, farming, wars and politics. When important events happen somewhere in the world, do you know where those places are? The pictures below show some important events that took place in 2017.

## Top Events in 2017



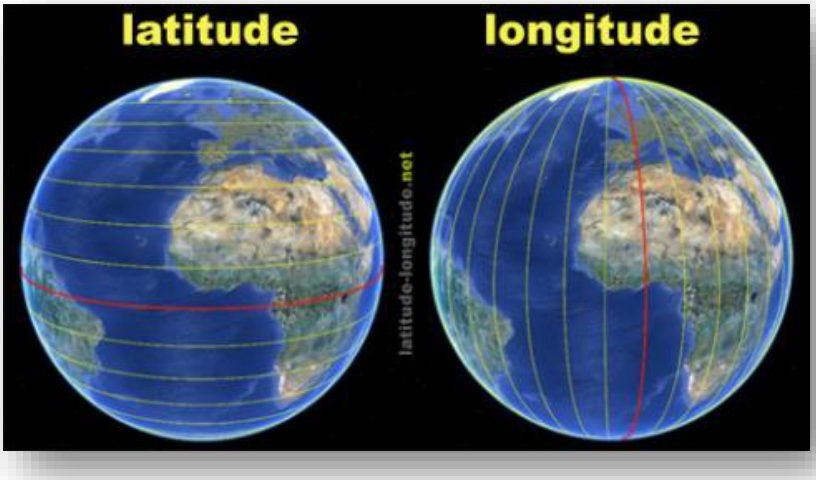

1. Throughout this year, learners will take turns to bring news stories from papers, magazines and the Internet for the current events map in the classroom.
2. Mark on a label the grid reference of the place you are talking about.

# Latitude and longitude of places in the news

In the same way that you used a grid reference to find places on a street map, you can use **latitude** and **longitude** to find places on a world map.

***Vocabulary***
***Latitude*** *lines drawn on a map that show degrees north or south of the Equator.*
***Longitude*** *lines drawn on a map that show degrees east or west of the Prime meridian, which is the zero degree line*

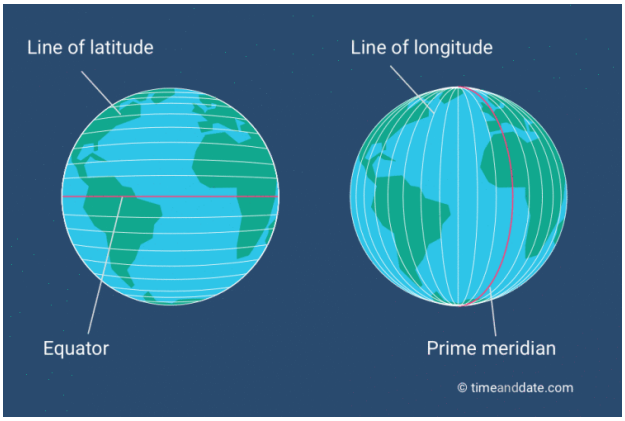
The lines on this globe are lines of latitude and longitude. The lines from the North Pole to the South Pole are lines of longitude. Lines of longitude meet each other at the poles. The other lines, which run horizontally around the globe (for example, the Equator), are lines of latitude. Lines of latitude do not meet each other – they stay the same distance apart all the way around the globe.



# How to give a reference using latitude and longitude

When you give a reference for a place, you always start with the number of degrees north or south, then the number of degrees west or east.

## Activity 12




Fill in the missing words in the spaces provided.

**North or South, degrees, Equator, North Pole, horizontally, vertically, Meridians, Greenwich England, Longitude, East or West, east longitude, Universal Time, International Dateline, Greenwich Mean Time, water.**

1. Lines of latitude run _____
2. Latitude is measured in _____
3. The _____ is 0 degrees latitude.
4. Lines of latitude locate places _____ of the Equator.
5. The _____ is 90 degrees N latitude and the South Pole is 90 degrees S latitude.
6. Lines of longitude run _____
7. Lines of latitude are called _____
8. The Prime Meridian is found in _____
9. The Prime Meridian is 0 degrees _____
10. The blue colour in the diagrams represent _____
11. Lines of longitude locate places _____ of the Prime Meridian.

12. There are 180 degrees of _____ and 180 degrees of west longitude.

13. _____- the time that is registered at Greenwich, London.

14. Greenwich Mean Time is another name for _____-

15. Use an atlas to answer the following.

Which South African cities are at or near these grid references?

a. 33$^{o}$S, 28$^{o}$E _____

b. 26$^{o}$S, 28$^{o}$E _____

c. 34$^{o}$S, 18$^{o}$E _____