

JUNGLE BOOKS: UEB MATH/SCIENCE & UEB WITH NEMETH

SERIES: Come back to me, braille!
Part 3 of 5



AMERICAN
PRINTING
HOUSE



Fellow travelers: Dawn and Kyle!





The Beautiful Jungles

Poll Question 1



Poll #1

What code or code combination do you usually use when transcribing math/science?

- A. UEB Math/Science
- B. UEB with Nemeth



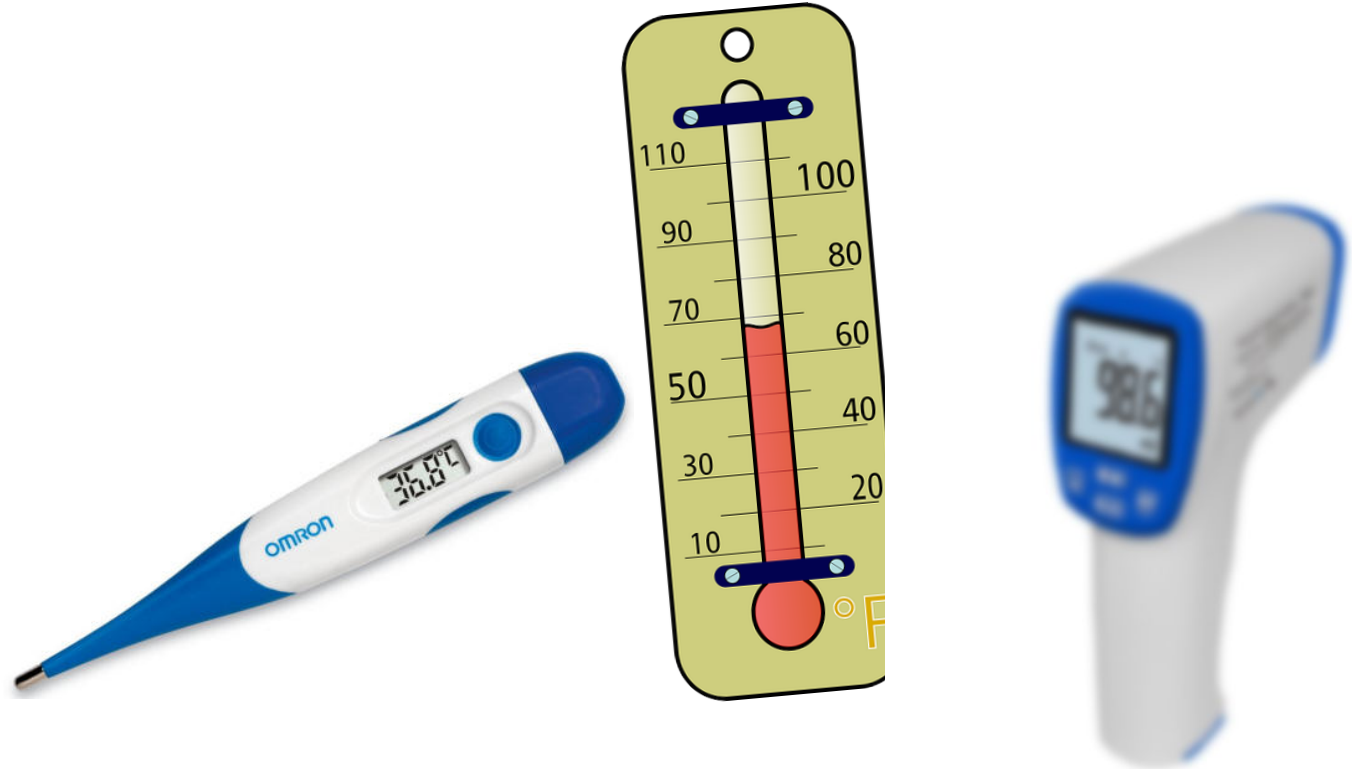
NEMETH CODE



Nemeth Code Characteristics

according to Kyle

- Consistent
- Concise
- Meaning-based



Read Jungle Books Practice Transcription, UEB with Nemeth



Jungle Books UEB with Nemeth Key

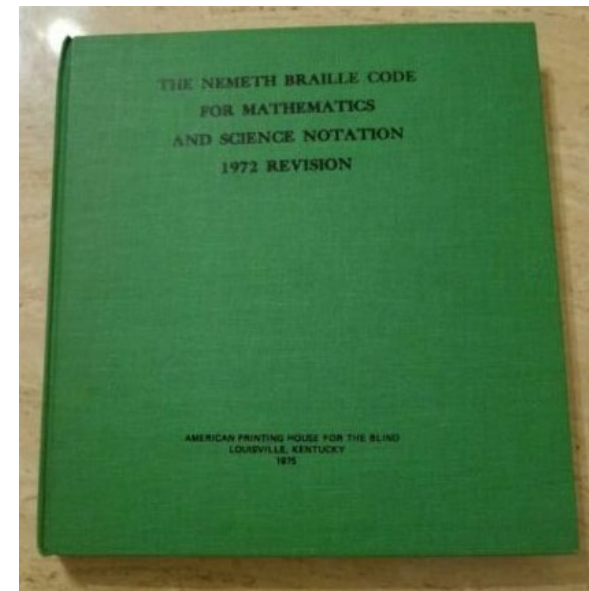
1. The first section contains four lines of Braille. The first line is a full line of Braille. The second line is indented. The third line is indented further. The fourth line is indented further still.

2. The second section contains six lines of Braille. The first line is a full line. The second line is indented. The third line is indented further. The fourth line is indented further still. The fifth line is indented further still. The sixth line is indented further still.

3. The third section contains four lines of Braille. The first line is a full line. The second line is indented. The third line is indented further. The fourth line is indented further still.

Primary Sources for UEB with Nemeth

- [BANA's page on the Nemeth Code](#), includes
 - scan of the typeset Nemeth Code
 - updates to the code
 - guidance for use with UEB
 - BRFs of all the above
- “The Green Book” *if* the following are added
 - updates
 - guidance



CODE SWITCH Symbols for UEB with Nemeth



opening Nemeth Code indicator



Nemeth Code terminator (Nemeth Code symbol)



single-word switch indicator (Nemeth Code symbol)

Braille Order of Code Switch Symbols



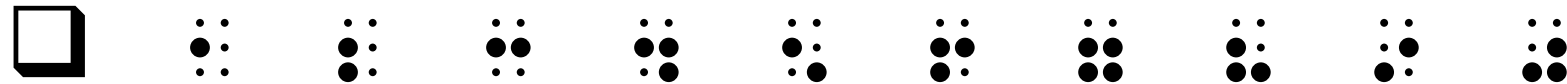
Line 1:	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
Line 2:	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
Line 3:	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
Line 4:	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
Line 5:	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
Line 6:	⠠	⠠	⠠	⠠	⠠	⠠				
Line 7:	⠠	⠠	⠠	⠠	⠠	⠠				

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140
141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160
161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180
181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200
201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220
221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240
241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260
261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280
281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300
301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320
321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340
341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380
381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400
401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420
421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440
441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460
461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480
481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500
501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520
521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540
541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560
561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580
581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600
601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620
621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660
661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680
681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700
701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720
721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740
741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760
761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780
781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800
801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820
821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840
841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860
861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880
881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900
901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920
921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940
941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980
981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020
1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040
1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060
1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080
1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100
1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120
1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140
1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160
1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180
1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200
1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220
1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240
1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260
1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280
1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300
1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320
1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340
1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360
1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380
1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400
1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420
1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440
1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460
1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480
1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500
1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520
1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540
1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560
1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580
1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600
1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620
1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640
1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660
1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680
1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700
1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720
1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740
1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760
1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780
1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800
1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820
1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840
1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860
1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920
1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960
1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980
1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

Very Basic Nemeth Code Symbols



digits



simple fraction indicators, open and close



decimal point



plus

More Resources for UEB with Nemeth

- [Quizlet flashcards from BrailleTrainer](#)
- [Pearson's Nemeth Symbol Library](#)
- ...
 - cheat sheets, online courses, organizational trainings, ...

Common Issues in Nemeth Code Transcriptions

- upper-cell numbers instead of lower-cell
⠠⠠⠠⠠⠠ vs. ⠠⠠⠠⠠⠠ for “twelve point five”
- missing baseline indicators where needed
⠠⠠⠠⠠⠠ vs. ⠠⠠⠠⠠⠠⠠ for “x-squared plus five”
- others?



WHAT IS NEXT FOR THE NEMETH CODE?

Quote from Nemeth Code Book

“Although the Code is intended to be as complete as possible, **finality can never be achieved by any code.** In the course of the rapid development in the fields of science and technology, new signs are constantly being devised and old ones modified. ...”

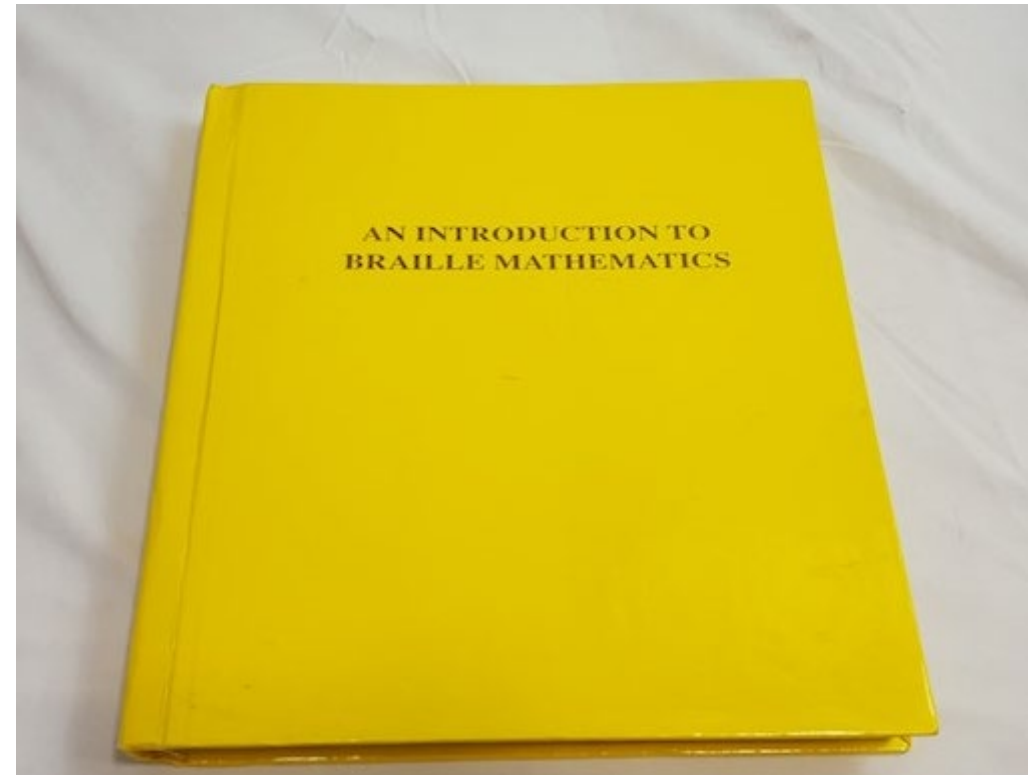
–Nemeth Code §1.c (emphasis added)

Current Status of the Nemeth Code, *interview with Dorothy Worthington*

- ❖ Dorothy Worthington is Chair of BANA's Nemeth Code Technical Committee
- BANA committee is making major revision of Nemeth Code
- Goal is updated code content approved this year (2021)
- Code will be accessible (available in PDF and BRF)
- Updated code incorporates all components of the code
- Review and preparation for final publication will take time

Nemeth Code Course

As of today (02/12/2021), the NLS Mathematics Braille Transcribing Course and Certification are EBAE-based.



Provisional Revised Nemeth *within UEB* Course

“Due to the need to make this training manual available to transcribers as soon as possible, we are offering a provisional version of the lessons in downloadable electronic format before being completely field tested and while BANA is revising the Nemeth Code. Exercises at the end of each lesson will not be available until a path toward certification is established. ...”

–“About” section of the [Provisional Nemeth Code Course](#)

Poll Question 2



Poll #2

What process(es) did you use to transcribe the “Jungle Book” math practice?

- A. ASCII Math
- B. Six-key entry
- C. LaTeX (e.g., via Overleaf, TeXmaker, etc.)
- D. Scientific Notebook
- E. MathType
- F. Other

A Multitude of Ways to Transcribe



There is no magic transcription tool

We can only help you achieve a solid foundation in the appropriate braille code.

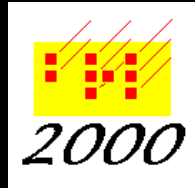
Then you can evaluate your output and adjust your personal input process.



BRAILLE TRANSCRIPTION SOFTWARE PROGRAMS

Most Common Programs in the U.S.

Braille2000



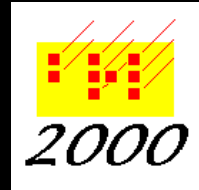
BrailleBlaster



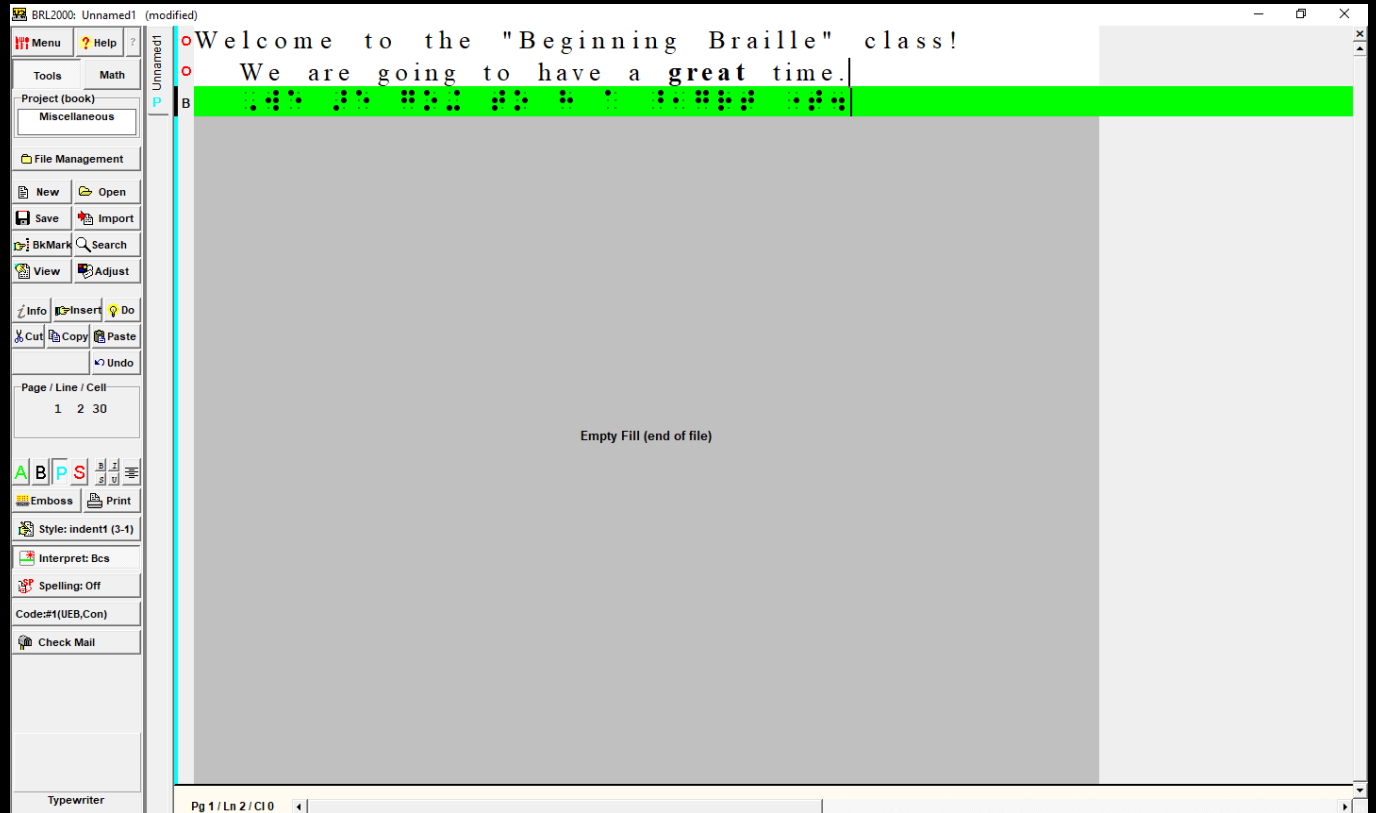
Duxbury Braille
Translator



Braille2000



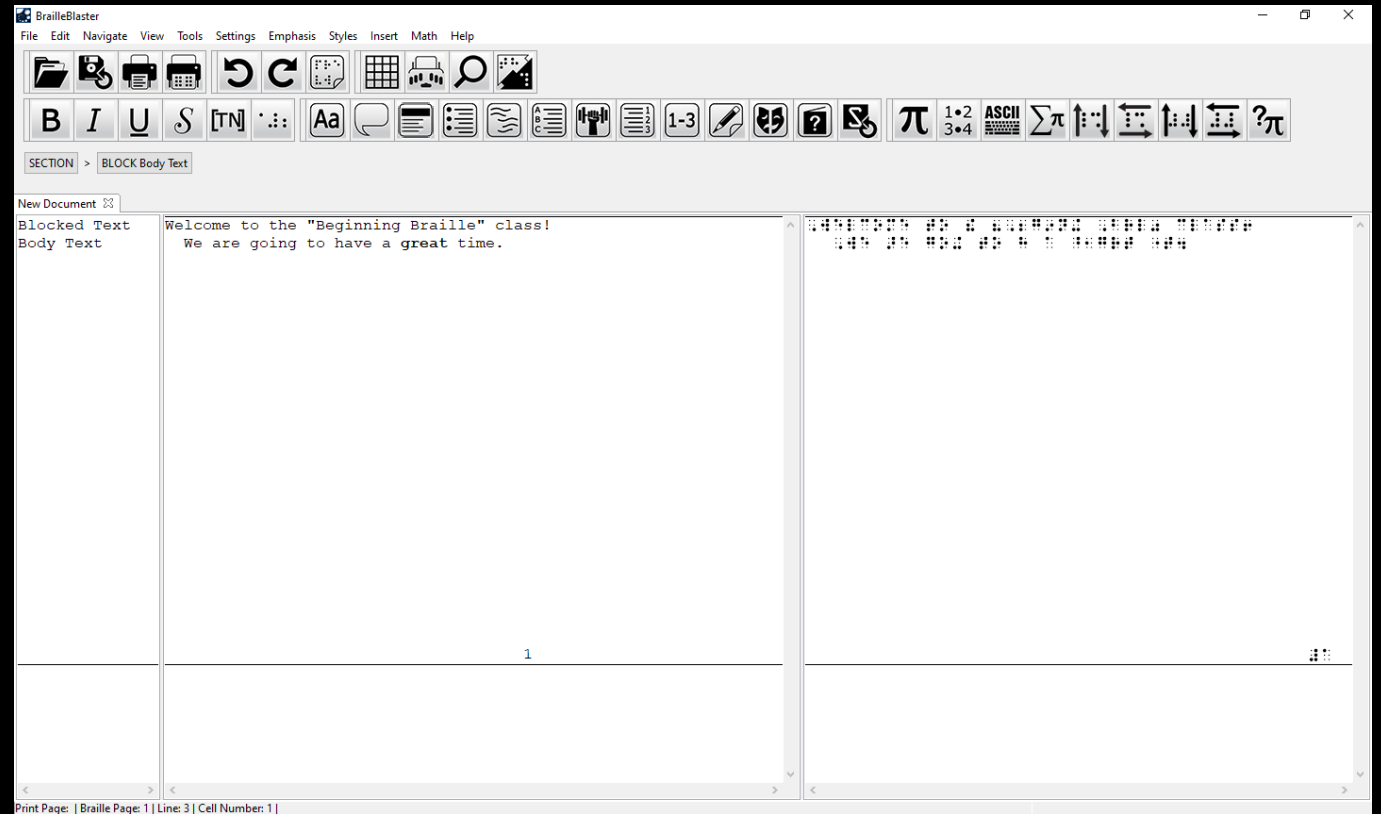
- also referred to as B2K
- has been criticized for its
 - lack of accessibility
 - but wait! There is a Talking Edition!
- slow development
- beloved for its
 - SpeedBraille™ Keys
 - color-coding
 - hands-on editing feel



BrailleBlaster



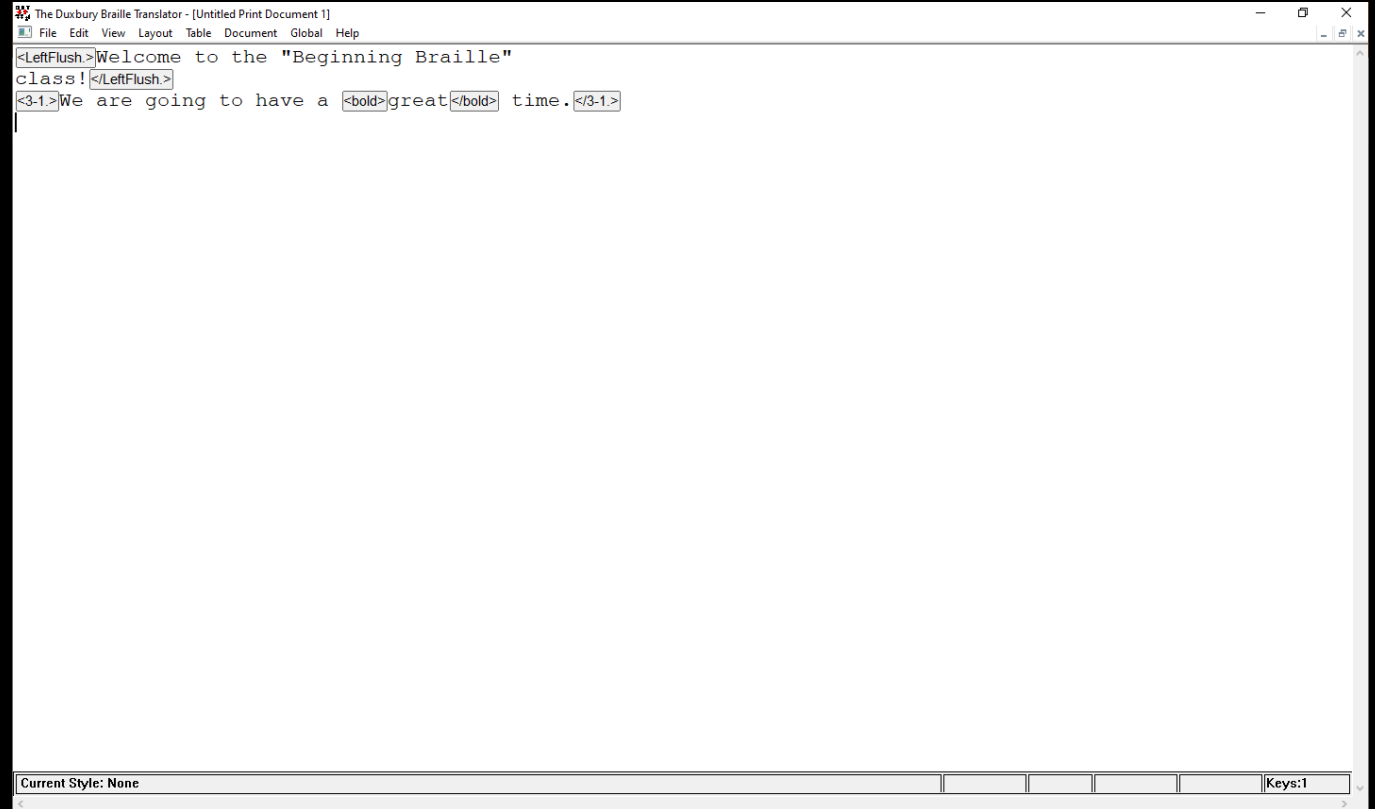
- sometimes referred to as BB
- has been criticized for its
 - development bugs
 - separated editing tools
- beloved for its
 - side-by-side view
 - price (free)
 - parsing of NIMAS (.xml) files



Duxbury Braille Translator



- also referred to as Dux and DBT
- has been criticized for its
 - nonintuitive editing tools, including unconnected print & braille files
 - price
- beloved for its
 - breadth of translation tables
 - international presence
 - bridge to word processing software (e.g. Microsoft WORD)





UEB MATH/SCIENCE

UEB Characteristics

according to Kyle

- Consistent
- “Back-translatable”
- Representative of print



Read Jungle Books Practice Transcription, UEB Math/Science



Primary Sources for UEB Math/Science

- ICEB's UEB page: iceb.org/ueb.html
- Hard copy of *Rules of UEB Second Edition 2013*
 - with updates
- **and Guidelines for Technical Material**
 - with updates, including new Section 3

Very Basic UEB Math/Science Symbols

☐ ⋮
numeric fraction line

☐ ⋮ ⋮
“cross” multiplier ×

☐ ⋮ ⋮ ⋮ ⋮
general fraction indicators, open and close,
and general fraction line

☐ ⋮ ⋮
plus

More Resources for UEB Math/Science

- [Quizlet flashcards from BrailleTrainer](#)
- [UEBOnline's Math Modules](#)
- ...
 - cheat sheets, online courses, organizational trainings, ...

Common Issues in UEB Math/Science Transcriptions

- not using grade 1 mode
 - ⠠⠨⠠⠨ vs. ⠠⠨⠠⠨ for “a over b”
- missing text or “unidentified” print symbol
- others?



WHAT IS NEXT FOR UEB GUIDELINES FOR TECHNICAL MATERIAL (GTM)?

“Unified English Braille continues to expand its reach. ...”

–Foreword to *Rules of UEB Second Edition*

Current Status of UEB GTM, *words from Kathy Riessen*

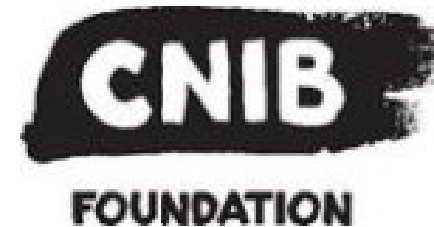
- ❖ Kathy Riessen is Chair of the ICEB Code Maintenance Committee
 - 2014 GTM is ready for revision, including expansion
 - Goal to create clear document with plenty of examples
 - GTM is being updated section by section
 - Updating includes time for testing and input and approval is multi-step
 - We will never be finished updating the GTM; the world keeps changing

UEB Technical Course

As of today (02/12/2021), there is no NLS course in using UEB for math and science.

CNIB's UEB Technical is a self-directed course in UEB for technical material. It is not an instruction manual.

We will talk more about braille certifications on Friday, March 5, 2021, 1:00-2:00pm ET



Terminology

On September 21, 2020, the Braille Authority of North America (BANA) adopted a document entitled “Terminology: **UEB Math/Science** and **UEB with Nemeth.**”

Poll Question 3



Poll #3

Which braille transcription shows the correct formatting of the pictured displayed verse?

Many upper-class people from Judah were sent to Babylonia in exile, the memory of which is still evoked in the stirring words of Psalm 137:

By the rivers of Babylon, we sat and wept when we remembered Zion ...

How can we sing the songs of the Lord while in a foreign land?

If I forgot you, O Jerusalem, may my right hand forget its skill.

May my tongue cling to the roof of my mouth if I do not remember you, if I do not consider Jerusalem my highest joy.

But the Babylonian captivity of the people of Judah did not last.

A. skipped lines with typeform retained

The image shows a Braille table with 21 rows, numbered on the left. Each row contains Braille characters. Row 9 is empty, indicating a skipped line. The Braille characters are arranged in a grid-like pattern across the rows, with some rows having leading or trailing spaces represented by empty Braille cells.

B. skipped lines with typeform ignored

6	$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$
7	$\frac{1}{4} + \frac{1}{5} = \frac{9}{20}$
8	$\frac{1}{6} + \frac{1}{7} = \frac{13}{42}$
9	
10	$\frac{1}{8} + \frac{1}{9} = \frac{17}{72}$
11	$\frac{1}{10} + \frac{1}{11} = \frac{21}{110}$
12	$\frac{1}{12} + \frac{1}{13} = \frac{25}{156}$
13	
14	$\frac{1}{14} + \frac{1}{15} = \frac{29}{210}$
15	$\frac{1}{16} + \frac{1}{17} = \frac{33}{272}$
16	$\frac{1}{18} + \frac{1}{19} = \frac{37}{342}$
17	$\frac{1}{20} + \frac{1}{21} = \frac{41}{420}$
18	$\frac{1}{22} + \frac{1}{23} = \frac{45}{506}$
19	
20	$\frac{1}{24} + \frac{1}{25} = \frac{49}{600}$
21	$\frac{1}{26} + \frac{1}{27} = \frac{53}{702}$

C. no skipped lines with typeform ignored

6	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	
7	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
8	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
9	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
10	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
11	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
12	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
13	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
14	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
15	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
16	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
17	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
18	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠
19	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠	⠠

B. skipped lines with typeform ignored

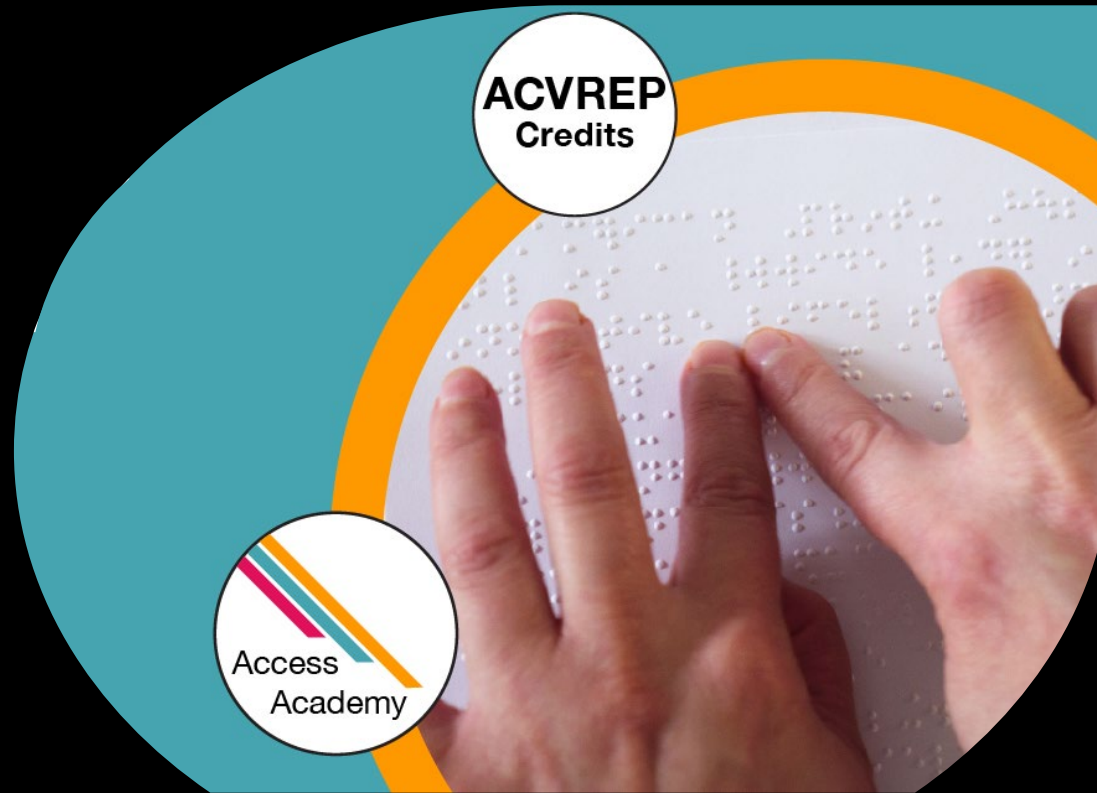
6	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
7	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
8	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
9	
10	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
11	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
12	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
13	
14	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
15	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
16	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
17	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
18	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
19	
20	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$
21	$\frac{1}{2} + \frac{3}{4} = \frac{5}{4}$

UPCOMING WEBINAR

Join us next time for

Does Braille Formatting Spark Joy?

Friday, Feb 19,
1:00-2:00 ET



AMERICAN
PRINTING
HOUSE FOR
THE BLIND

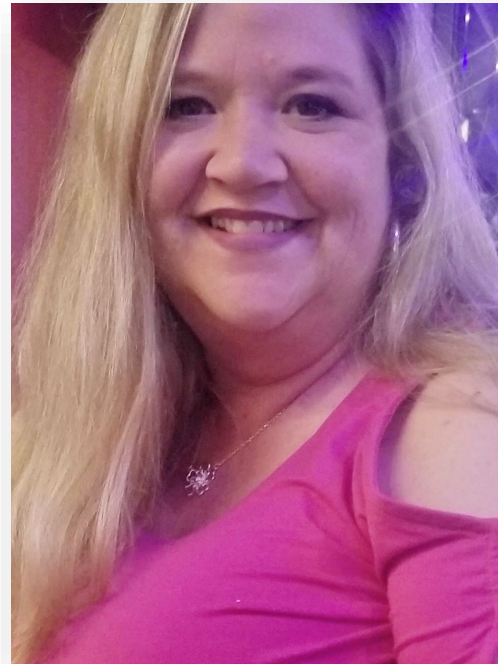




Our Presenters

kdejute@aph.org

Kyle DeJute, Braille Trainer



deadens@aph.org

Dawn Eadens, Digital
Textbook File Developer