



DesCartes: A Continuum of Learning[®]

SIGNS AND SYMBOLS

for the MAP[®] system

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Telephone: 503-624-1951 ♦ FAX: 503-629-7873

DesCartes Signs and Symbols

The following pages identify NWEA’s assessment signs and symbols for language usage, mathematics, science concepts and processes, and general science. On the Language Usage and Mathematics tables that follow, signs and symbols are listed for the first RIT score range in which they apply. The RIT score range indicates when the corresponding group of signs and symbols may need to be introduced into the curriculum for this subject area. The science signs and symbols are listed in alphabetical order.

Language Usage

The following table identifies the language usage assessment signs and symbols for each RIT score range:

Table 1: Language Usage Signs and Symbols

| RIT SCORE RANGE | SIGNS AND SYMBOLS (LANGUAGE USAGE) | | | | |
|-----------------|------------------------------------|-----|--|----------------------|---|
| 161-170 | apostrophe | ' | | period | . |
| | colon | : | | question mark | ? |
| | comma | , | | left quotation mark | “ |
| | dash | – | | right quotation mark | ” |
| | exclamation mark | ! | | semicolon | ; |
| 181-190 | ellipsis | ... | | right parenthesis |) |
| | left parenthesis | (| | | |
| 191-200 | underline | — | | | |
| 231-240 | paragraph | ¶ | | | |

Mathematics

The following table identifies the mathematics assessment signs and symbols for each RIT score range:

Table 2: Mathematics Signs and Symbols

| RIT SCORE RANGE | SIGNS AND SYMBOLS (MATHEMATICS) | | | |
|-----------------|---------------------------------|-------|---------------------|-------------------|
| 151-160 | addition | + | is equal to | = |
| | dollar sign | \$ | variable | □ |
| 161-170 | order of operations | () | less than | < |
| | cent | ¢ | multiplication sign | × |
| | centimeter/centimetre | cm | subtraction | - |
| | division | ÷ | used with time | : |
| | greater than | > | | |
| 171-180 | degrees Fahrenheit | °F | minute | min |
| | feet | ft. | point | • |
| | gram | gr. | tally | |
| | pound | lb. | | |
| 181-190 | ordered pair | () | long division | $\overline{6)39}$ |
| | set notation | { } | meter/metre | m |
| | degrees Celsius | °C | next in sequence | ? |
| | a.m. | a.m. | p.m. | p.m. |
| | inch | in. | | |
| 191-200 | hour | hr. | percent | % |
| | inches | in. | pint | pt. |
| | missing operation | □ | quart | qt. |
| | multiplication symbol | • | remainder | R |
| | negative number | -x | yard | yd. |
| | null or empty set | ∅ | | |
| 201-210 | a variable | □ | miles per hour | mph |
| | approximately equal to | ≈ | northeast | NE |
| | degrees | ° | northwest | NW |
| | distance | d | ounce | oz. |
| | greater than or equal to | ≥ | positive number | + |
| | less than or equal to | ≤ | right angle marker | ⊥ |
| | line symbol | ↔ | southeast | SE |
| | millimeter/millimetre | mm | southwest | SW |
| 211-220 | angle | ∠ | miles per gallon | mpg |
| | angle marker (arc) | ∠ | perimeter | P |
| | cup | c | ratio | : |
| | feet | ft | segment overbar | — |
| | fluid ounce | fl oz | side | S |

| RIT SCORE RANGE | SIGNS AND SYMBOLS (MATHEMATICS) | | | |
|-----------------|----------------------------------|-----------------|------------------------------|-----------------|
| | gallon | gal | teaspoon | tsp |
| | kilogram | kg | width | w |
| | length | l | | |
| 221-230 | parentheses around an integer | (x) | measurement span right | → |
| | absolute value | | measurement span up | ↑ |
| | decimeter/decimetre | dm | number | # |
| | height | h | pi | π |
| | hour (SI metric) | h | repeating decimal overbar | — |
| | intersection | n | second | sec. |
| | kilometer/kilometre | km | second (SI metric) | s |
| | measure of angle | mL | square foot symbol | ft ² |
| | measurement span down | ↓ | triangle | △ |
| | measurement span left | ← | volume | V |
| 231-240 | area | A | not equal to | ≠ |
| | circumference | c | outlier | • |
| | congruent segment | ≅ | probability | P() |
| | diameter | d | parallel | |
| | value of the function “f” at “x” | f(x) | radius | r |
| | interest | I | ray | → |
| | milliliter/millilitre | mL | similar to | ~ |
| 241-250 | brackets | [] | north | N |
| | base | b | south | S |
| | cubic centimeter/centimetre | cm ³ | square | sq |
| | is congruent to | ≅ | square centimeter/centimetre | cm ² |
| | lowest common multiple | LCM | square meter/metre | m ² |
| | liter/litre | l | west | W |
| | north-northeast | NNE | | |
| 251-260 | angle, angle, angle | AAA | side, angle, side | ASA |
| | angle, angle, side | AAS | square inch (sq. in.) | in ² |
| | angle, side, angle | ASA | side, side, angle | SSA |
| | factorial | ! | side, side, side | SSS |
| | parallel line arrow markers | ⇒ | | |
| 261-270 | cosine | cos | sine | sin |
| | per | / | square root of -1 | $\sqrt{-1}$ |
| | principal | P | tangent | tan |
| | rate | r | | |

Science

The following tables identify the science (general science, and science concepts and processes) assessment signs and symbols.

Concepts and Processes

The following table identifies the science concepts and processes assessment signs and symbols:

Table 3: Science, Concepts and Processes

| SIGNS AND SYMBOLS (CONCEPTS AND PROCESSES) | | | | |
|--|-----------------|--|-----------------------|------|
| a.m. | a.m. | | kilogram | kg |
| acidity (liquid) | pH | | kilometer/kilometre | km |
| Celsius | C | | milliliter/millilitre | mL |
| cent sign | ¢ | | millimeter/millimetre | mm |
| centimeter/centimetre | cm | | minute | min |
| cubic centimeter/centimetre | cm ³ | | negative | – |
| decimal point | . | | north | N |
| degrees | ° | | p.m. | p.m. |
| east | E | | percent | % |
| feet | ft | | second | sec |
| foot | ' | | south | S |
| inch | " | | west | W |
| is equal to | = | | | |

General Science

The following table identifies the general science assessment signs and symbols:

Table 4: Science, General Science

| SIGNS AND SYMBOLS (GENERAL SCIENCE) | | | | |
|-------------------------------------|---|--|------------------------------|------------------|
| acceleration | a | | hydrogen molecule | H ₂ |
| calcium | Ca | | kilogram | kg |
| carbon | C | | lead | Pb |
| carbon dioxide | CO ₂ | | leads to (geochemical cycle) | → |
| carbon monoxide | CO | | mass | m |
| cesium | Cs | | milliliter/millilitre | mL |
| chlorine | Cl | | negative | - |
| chromium | Cr | | nitrate | NO ₃ |
| cobalt | Co | | north | N |
| copper | Cu | | oxygen | O |
| decimal point | . | | oxygen molecule | O ₂ |
| degrees | ° | | pH | pH |
| flow of energy (food chains) | S:→ | | potassium | K |
| Force | F | | sodium | Na |
| glucose | C ₆ H ₁₂ O ₆ | | south | S |
| gram | g | | sulfur | S |
| hydrogen | H | | water | H ₂ O |