

# Package ‘satconcordance’

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**Type** Package

**Title** Concordance for New and Old SAT Values

**Version** 0.1.1

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**Description** This package provides functions to recode SAT scores according to any table in the SAT Concordance Tables (Released 5/9/2016): this includes new SAT to old SAT values, old SAT to new SAT values, new SAT to ACT values, and ACT to new SAT values. All functions call `dplyr::recode()` to perform optimized recodes. Each function accepts a vector of values, recodes it, and returns the recoded vector.

**URL** <https://github.com/capturelabs/satconcordance>

**BugReports** <https://github.com/capturelabs/satconcordance/issues>

**License** MIT

**Encoding** UTF-8

**Depends** R (>= 3.1.2)

**LazyData** true

**Imports** dplyr

**RoxygenNote** 6.0.1

## R topics documented:

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| act_english_to_new_sat_writing |  |
|                                | <i>Recode ACT English/Writing test to new SAT writing and language section</i> |

---

**Description**

Function to recode ACT English/Writing test to new SAT writing and language section. Missing and unmatched values are coded as missing.

**Usage**

act\_english\_to\_new\_sat\_writing(x)

**Arguments**

x                      numeric vector of ACT English/Writing test values

**Value**

integer vector of new SAT writing and language section values

**Examples**

```
require(dplyr)

act_vals <- sample(11:36, 10)
new_sat_vals <- act_english_to_new_sat_writing(act_vals)
act_new_vals <- data.frame(act_vals, new_sat_vals)
print(act_new_vals)

act_new_vals %>%
  mutate(new_sat_vals_piped = act_english_to_new_sat_writing(act_vals))
```

---

|                |   |
|----------------|---|
| act_to_new_sat | <i>Recode ACT to new SAT (1600 scale)</i> |
|----------------|---|

---

**Description**

Function to recode ACT to new SAT (1600 scale). Missing and unmatched values are coded as missing.

**Usage**

act\_to\_new\_sat(x)

**Arguments**

x                      numeric vector of ACT values

**Value**

integer vector of new SAT values (1600 scale)

**Examples**

```
require(dplyr)

act_vals <- sample(11:36, 10)
new_sat_vals <- act_to_new_sat(act_vals)
act_new_vals <- data.frame(act_vals, new_sat_vals)
print(act_new_vals)

act_new_vals %>%
  mutate(new_sat_vals_piped = act_to_new_sat(act_vals))
```

---

```
new_sat_ebrw_to_old_writingreading
```

*Recode new SAT EBRW section to old SAT writing plus critical reading sections*

---

**Description**

Function to recode new SAT Evidence-Based Reading and Writing Section test to old SAT writing plus critical reading sections. Missing and unmatched values are coded as missing.

**Usage**

```
new_sat_ebrw_to_old_writingreading(x)
```

**Arguments**

x                      numeric vector of new SAT EBRW section values

**Value**

integer vector of old SAT writing plus critical reading section values

**Examples**

```
require(dplyr)

new_sat_vals <- round(sample(200:800, 10), -1)
old_sat_vals <- new_sat_ebrw_to_old_writingreading(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_ebrw_to_old_writingreading(new_sat_vals))
```

---

new\_sat\_math\_to\_old\_sat\_math

*Recode new SAT math section to old SAT math section*


---

### Description

Function to recode new SAT math section to old SAT math section. Missing and unmatched values are coded as missing.

### Usage

```
new_sat_math_to_old_sat_math(x)
```

### Arguments

x                      numeric vector of new SAT math section values

### Value

integer vector of old SAT math section values

### Examples

```
require(dplyr)

new_sat_vals <- round(sample(200:800, 10), -1)
old_sat_vals <- new_sat_math_to_old_sat_math(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_math_to_old_sat_math(new_sat_vals))
```

---

new\_sat\_reading\_to\_old\_sat\_reading

*Recode new SAT reading test to old SAT critical reading section*


---

### Description

Function to recode new SAT reading test to old SAT critical reading section. Missing and unmatched values are coded as missing.

### Usage

```
new_sat_reading_to_old_sat_reading(x)
```

### Arguments

x                      numeric vector of new SAT reading test values

**Value**

integer vector of old SAT critical reading section values

**Examples**

```
require(dplyr)

new_sat_vals <- sample(10:40, 10)
old_sat_vals <- new_sat_reading_to_old_sat_reading(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_reading_to_old_sat_reading(new_sat_vals))
```

---

|                |   |
|----------------|---|
| new_sat_to_act | <i>Recode new SAT (1600 scale) to ACT</i> |
|----------------|---|

---

**Description**

Function to recode new SAT (1600 scale) to ACT. Missing and unmatched values are coded as missing.

**Usage**

```
new_sat_to_act(x)
```

**Arguments**

x                      numeric vector of new SAT values (1600 scale)

**Value**

integer vector of ACT values

**Examples**

```
require(dplyr)

new_sat_vals <- round(sample(560:1600, 10), -1)
act_vals <- new_sat_to_act(new_sat_vals)
new_act_vals <- data.frame(new_sat_vals, act_vals)
print(new_act_vals)

new_act_vals %>%
  mutate(act_vals_piped = new_sat_to_act(new_sat_vals))
```

---

```
new_sat_to_old_sat_1600
```

*Recode new SAT (1600 scale) to old SAT (1600 scale)*

---

### Description

Function to recode new SAT (1600 scale) to old SAT (1600 scale). Missing and unmatched values are coded as missing.

### Usage

```
new_sat_to_old_sat_1600(x)
```

### Arguments

x                      numeric vector of new SAT values on 1600 scale

### Value

integer vector of old SAT values on 1600 scale

### Examples

```
require(dplyr)

new_sat_vals <- round(sample(400:1600, 10), -1)
old_sat_vals <- new_sat_to_old_sat_1600(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_to_old_sat_1600(new_sat_vals))
```

---

```
new_sat_to_old_sat_2400
```

*Recode new SAT (1600 scale) to old SAT (2400 scale)*

---

### Description

Function to recode new SAT (1600 scale) to old SAT (2400 Scale). Missing and unmatched values are coded as missing.

### Usage

```
new_sat_to_old_sat_2400(x)
```

### Arguments

x                      numeric vector of new SAT values on 1600 scale

**Value**

integer vector of old SAT values on 2400 scale

**Examples**

```
require(dplyr)

new_sat_vals <- round(sample(400:1600, 10), -1)
old_sat_vals <- new_sat_to_old_sat_2400(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_to_old_sat_2400(new_sat_vals))
```

---

```
new_sat_writing_to_act_english
```

*Recode new SAT writing and language section to ACT English/Writing test*

---

**Description**

Function to recode new SAT writing and language section to ACT English/Writing test. Missing and unmatched values are coded as missing.

**Usage**

```
new_sat_writing_to_act_english(x)
```

**Arguments**

x                      numeric vector of new SAT writing and language section values

**Value**

integer vector of ACT English/Writing test values

**Examples**

```
require(dplyr)

new_sat_vals <- sample(17:40, 10)
act_vals <- new_sat_writing_to_act_english(new_sat_vals)
new_act_vals <- data.frame(new_sat_vals, act_vals)
print(new_act_vals)

new_act_vals %>%
  mutate(act_vals_piped = new_sat_to_act(new_sat_vals))
```

---

```
new_sat_writing_to_old_sat_writing
```

*Recode new SAT writing and language test to old SAT writing section*

---

### Description

Function to recode new SAT writing and language test to old SAT writing section. Missing and unmatched values are coded as missing.

### Usage

```
new_sat_writing_to_old_sat_writing(x)
```

### Arguments

x                      numeric vector of new SAT writing and language values

### Value

integer vector of old SAT writing section values

### Examples

```
require(dplyr)

new_sat_vals <- sample(10:40, 10)
old_sat_vals <- new_sat_writing_to_old_sat_writing(new_sat_vals)
new_old_vals <- data.frame(new_sat_vals, old_sat_vals)
print(new_old_vals)

new_old_vals %>%
  mutate(old_sat_vals_piped = new_sat_writing_to_old_sat_writing(new_sat_vals))
```

---

```
old_sat_math_to_new_sat_math_section
```

*Recode old SAT math section to new SAT math section (200-800 scale)*

---

### Description

Function to recode old SAT math section to new SAT math section (200-800 scale). Missing and unmatched values are coded as missing.

### Usage

```
old_sat_math_to_new_sat_math_section(x)
```

### Arguments

x                      numeric vector of old SAT math section values



**Value**

integer vector of new SAT math section values (200-800 scale)

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_math_to_new_sat_math_section(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_math_to_new_sat_math_section(old_sat_vals))
```

---

old\_sat\_math\_to\_new\_sat\_math\_test

*Recode old SAT math section to new SAT math test (10-40 scale)*

---

**Description**

Function to recode old SAT math section to new SAT math test (10-40 scale). Missing and unmatched values are coded as missing.

**Usage**

```
old_sat_math_to_new_sat_math_test(x)
```

**Arguments**

x                      numeric vector of old SAT math section values

**Value**

integer vector of new SAT math test values (10-40 scale)

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_math_to_new_sat_math_test(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_math_to_new_sat_math_test(old_sat_vals))
```

---

`old_sat_reading_to_new_sat_reading`*Recode old SAT critical reading test to new SAT reading section*

---

**Description**

Function to recode old SAT critical reading test to new SAT reading section. Missing and unmatched values are coded as missing.

**Usage**

```
old_sat_reading_to_new_sat_reading(x)
```

**Arguments**

`x` numeric vector of old SAT critical reading test values

**Value**

integer vector of new SAT reading section values

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_reading_to_new_sat_reading(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_reading_to_new_sat_reading(old_sat_vals))
```

---

`old_sat_to_new_sat_1600`*Recode old SAT (1600 scale) to new SAT (1600 scale)*

---

**Description**

Function to recode old SAT (1600 scale) to new SAT (1600 scale). Missing and unmatched values are coded as missing.

**Usage**

```
old_sat_to_new_sat_1600(x)
```

**Arguments**

`x` numeric vector of old SAT values on 1600 scale

**Value**

integer vector of new SAT values on 1600 scale

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(400:1600, 10), -1)
new_sat_vals <- old_sat_to_new_sat_1600(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_to_new_sat_1600(old_sat_vals))
```

---

old\_sat\_to\_new\_sat\_2400

*Recode old SAT (2400 scale) to new SAT (1600 scale)*

---

**Description**

Function to recode old SAT (2400 scale) to new SAT (1600 Scale). Missing and unmatched values are coded as missing.

**Usage**

```
old_sat_to_new_sat_2400(x)
```

**Arguments**

x                      numeric vector of old SAT values on 2400 scale

**Value**

integer vector of new SAT values on 1600 scale

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(600:2400, 10), -1)
new_sat_vals <- old_sat_to_new_sat_2400(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_to_new_sat_2400(old_sat_vals))
```

---

```
old_sat_writingreading_to_new_ebrw
```

*Recode old SAT writing plus critical reading sections to new SAT EBRW section*

---

### Description

Function to recode old SAT writing plus critical reading sections to new SAT Evidence-Based Reading and Writing Section test. Missing and unmatched values are coded as missing.

### Usage

```
old_sat_writingreading_to_new_ebrw(x)
```

### Arguments

x                      numeric vector of old SAT writing plus critical reading section values

### Value

integer vector of new SAT EBRW section values

### Examples

```
require(dplyr)

old_sat_vals <- round(sample(400:1600, 10), -1)
new_sat_vals <- old_sat_writingreading_to_new_ebrw(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_writingreading_to_new_ebrw(old_sat_vals))
```

---

```
old_sat_writing_to_new_sat_writing
```

*Recode old SAT writing test to new SAT writing and language section*

---

### Description

Function to recode old SAT writing test to new SAT writing and language section. Missing and unmatched values are coded as missing.

### Usage

```
old_sat_writing_to_new_sat_writing(x)
```

### Arguments

x                      numeric vector of old SAT writing values

**Value**

integer vector of new SAT writing and language section values

**Examples**

```
require(dplyr)

old_sat_vals <- round(sample(200:800, 10), -1)
new_sat_vals <- old_sat_writing_to_new_sat_writing(old_sat_vals)
old_new_vals <- data.frame(old_sat_vals, new_sat_vals)
print(old_new_vals)

old_new_vals %>%
  mutate(new_sat_vals_piped = old_sat_writing_to_new_sat_writing(old_sat_vals))
```

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