

NAPLAN Online – Jurisdictional Results and Reporting Dataset

2018 Addenda v3

The following advice is intended for technical staff who are responsible for consuming the Jurisdictional Results and Reporting Dataset (RRD). It should be read in conjunction with the latest version of the Results and Reporting Dataset – Tech Spec (currently v0.95) available via NSIP's github site here: <https://github.com/nsip/naplan-results-reporting> Please contact NSIP at info@nsip.edu.au if you have any comments or queries.

Change log:

Version	Change owner	Date	Description
V2	NSIP	19/2/18	Added Disability Adjustment Codes (section 9)
V3	NSIP	31/5/18	Added sections 10, 11 & 12 10. Test Items (uniqueness) 11. Test Items & Substitute Items 12. Test Item – Item response correctness

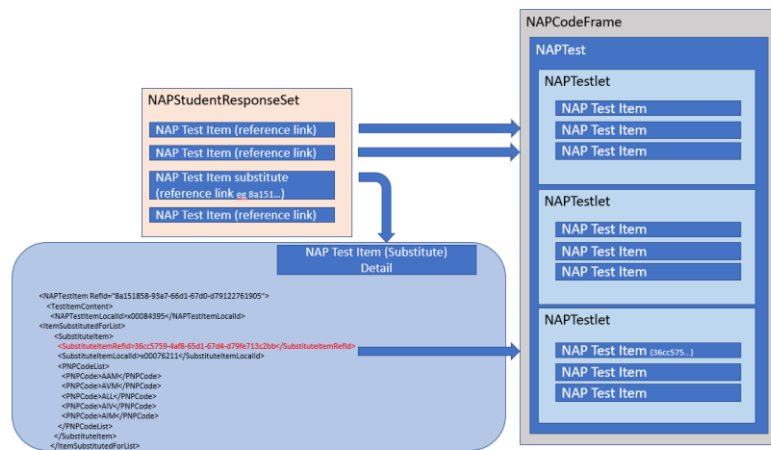
1. Codeframe

The codeframe currently contains only mainstream items; it does not contain substitute items.

1.1 Substitute Items

If a student has responded to an item not included in the codeframe, it is likely to be a substitute item. In order to make sense of the student's response, data consumers need to understand the following:

- The codeframe contains all mainstream items within the adaptive framework for each test, and details their content.
- Substitute items are available as separate objects from the results and reporting dataset, but are not enumerated or referenced within the codeframe.
- Substitute items contain links to the mainstream items that they replace.
- A substitute test item can be a replacement of more than one mainstream test item, and may replace different test items within the same test.
- However, a substitute test item will only replace a single test item in a given testlet and a given test pathway; e.g. it may replace an item in node B and a different item in node D of a reading test—but no student will undertake both nodes B and D in the same test.
- Therefore, given a response to a substitute item, data consumers should retrieve the substitute item, and review it against the mainstream items expected for the current testlet, as enumerated in the codeframe. The substitute item will point to the mainstream items it can stand in for; only one of those items will be among the mainstream items of the current testlet.



2. Rubrics

The rubrics for Writing are produced by ACARA who publish them online <https://www.nap.edu.au/naplan/writing>, and are not included in the tech spec.

3. Response format

Item responses are delivered in the Results and Reporting Data Set XML as text. This includes the students' extended writing task responses. The responses may be strings, numbers, arrays, maps, or arrays of maps, depending on the item type. (Maps and arrays of maps are appropriate for match/association items.) The data structures for responses are given by the Assessment Platform in JSON. In the Assessment Platform structures, JSON object keys can map to multiple values without them being in an array; e.g. {"ValueMatch": "the amount of power going to your board", "controlled by the expert pilot"}

Formatting for extended responses, including font size, boldface, italic, underlining, and paragraphs are given in HTML.

Item content is encoded in UTF-8, and includes smart apostrophes.

4. Not in Path

The results & reporting data as of PRT 2017 have only one testlet included in the Grammar & Punctuation test out of an available three, but the responses to that test include items from all three possible testlets. The two testlets that the student has not been presented with have their item responses flagged as being "Not In Path". The test structure for subsequent years (ie NAPLAN 2018) may vary and will likely result in less "Not In Path" item responses than seen in PRT 2017.

5. Expected test sequence

Currently, students are expected to complete the NAPLAN Online tests in the following order:

1. Writing
2. Reading
3. Conventions of Language
4. Numeracy

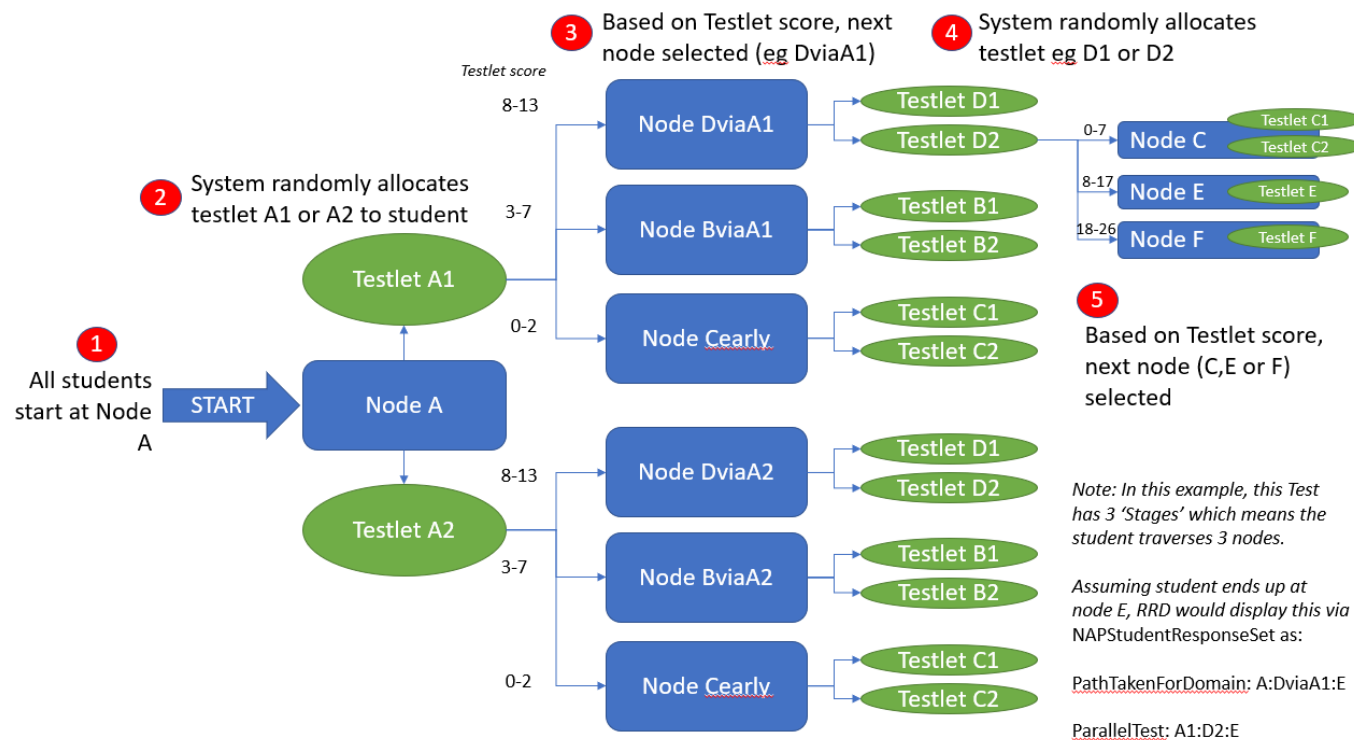
The test order is important as the results a student obtains for Reading determines their starting position for the Conventions of Language test. Where a student completes the test out of sequence (or across schools) they will be given a default starting position for Conventions of Language.

6. Testlets, Nodes and the Codeframe

For 2018 purposes, the codeframe will contain details of the test, testlets and test items (excluding direct references to substitute items refer point 1 above). For the purposes of interpreting the codeframe, the NAPTestlet value for “Node” does not provide any meaningful value and will be reviewed post NAPLAN 2018. A “Node” is effectively a container for testlets and is an artefact from the test construction process.

When reviewing a student’s response, the fields **Path Taken For Domain** and **Parallel Test** provide the following details as illustrated by the example below:

- Path Taken For Domain – details the nodes a student traverses as part of their test attempt
- Parallel Test – details the Testlets a student traverses as part of their test attempt



7. Device details

Device details from systems used to complete NAPLAN Online tests will be supplied in the 2018 RRD data. Examples include:

- <Device>Mozilla/5.0 (Windows NT 10.0; rv:41.0) Gecko/20100101 Firefox/41 SEB 2.1.8</Device>
- <Device>Mozilla/5.0 (iPad; CPU OS 10_3_3 like Mac OS X) AppleWebKit/603.3.8 (KHTML, like Gecko) Version/10.0 Mobile/14G60 Safari/602.1</Device>

No specific unique device (MAC address) or network details (IP address) are included in the <Device> details element.

8. Caveats

- “TestletSubScore” (Testlet scores) are currently not being provided; but they can be calculated from the item scores in a response.
- In order to prevent cheating, it is planned that there will be at least two Writing tests administered in a school per year level. so there will be at least two Writing Test Score Summaries per year level for a school.
- Students whose participation status is Sanctioned Abandonment will not receive overall domain scores for the test, but may have item responses.

9. Disability Adjustment Codes

The following Disability Adjustment Codes (DACs) are available for use in 2018:

AAM: Alternative Items - both audio and motor assistive

AIA: Alternative items - audio

AIM: Alternative items - motor assistive

AIV: Alternative items - visual

ALL: Alternative items - Audio, visual and motor assistive

AST: Assistive technology

AVM: Alternative Items - both visual and motor assistive

COL: Colour contrast modification

ETA: Extra Time - 5 mins per 30 min or part thereof

ETB: Extra Time - 10 mins per 30 min or part thereof

ETC: Extra Time - 15 mins per 30 min or part thereof

ETD: Extra Time – double total test time

OFF: Braille, large print, black and white, electronic test format

OSS: Oral sign/support

RBK: Rest break

SCR: Scribe

SUP: NAPLAN Support person

Refer: ACARA Principal's Handbook

10. Test Items

When analysing the results and reporting dataset the following should be taken into account regarding Test Items:

- The Assessment Platform may present students who are on the same pathway with different test items (of equivalent difficulty) within a given testlet. For security reasons, in the real-world, a student taking the same path as the student next to them can be presented with different test items.
- Test items with the same test item local id can appear in multiple testlets within a test and across tests (for example Year 3 Numeracy and Year 5 Numeracy).
- The RefID (GUID) for a Test item is unique for that instance of the test item within a testlet (and therefore a test) and across tests. The test item local id, on the other hand, is the same for all instances of the same test item.
- To link a test item completed by a student (NAPStudentResponseSet) to the corresponding codeframe entry in pseudocode the query would resemble:

```
Select Item details
From NAPCodeFrame.NAPTestItem
Join NAPCodeFrame.NAPTestlet
Join NAPCodeFrame.NAPTest
Where NAPStudentResponseSet.NAPTestLocalId = NAPCodeFrame.NAPTest. NAPTestLocalId
And
NAPStudentResponseSet. NAPTestletLocalId = NAPCodeFrame.NAPTestlet.
NAPTestletLocalId
And
NAPStudentResponseSet.TestItem. TestItemLocalId = NAPCodeFrame.NAPTestItem.
TestItemLocalId
```

11. Test Items & Substitute Items

Please note that there are examples of 'mainstream' items also being represented as 'substitute' items in the 2018 NAPLAN Online test. Examples include:

NAPLAN Conventions of Language Year 9 2018	9	Grammar and Punctuation	x00098766
NAPLAN Conventions of Language Year 9 2018	9	Grammar and Punctuation	x00098768
NAPLAN Conventions of Language Year 7 2018	7	Grammar and Punctuation	x00098854
NAPLAN Conventions of Language Year 7 2018	7	Grammar and Punctuation	x00098766

12. Item response correctness

The following item responses are represented in the dataset:

Correct – The student's response was correct

Incorrect – The student's response was incorrect

Not attempted – No student response was recorded for this item

Not in path – This item was not presented to the student due to the adaptive structure of the test