

# Cognitive Verb Junior Secondary Work Plan

## Rationale

As the Cognitive Verbs are the basis of testing in the new senior syllabuses, they should be considered a vital part of teaching and learning in the junior secondary years. Students will have to take in dense subject content during their senior years, as well as deeply understand the Cognitive Verbs.

The Cognitive Verbs should be introduced as early as possible and integrated into all classwork and assessment pieces. As students progress through their middle school years, their command of problem-solving skills and their familiarity with the Cognitive Verbs should guarantee that, in Years 11 and 12, their focus can be entirely on success on the internal and external assessments. However, this does not mean that the emphasis on Cognitive Verbs should decrease. During Year 10 onwards, the assessment pieces should be modelled to follow the same style as the senior external assessments, including the use of Cognitive Verbs throughout.

To ensure success in high school, we make the following recommendations:

- Each week, there should be a cohort-wide focus on one Cognitive Verb for Years 7-10;
- Each teacher is responsible for integrating the CV into their subject;
- Teachers should explicitly cover the problem-solving skills and subject-specific applications of the CV;
- Students' early introduction to the Cognitive Verbs should focus on strong fundamentals of reading comprehension and problem-solving techniques as espoused by Mighty Minds.

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The following plan outlines how students can cover all 75 Cognitive Verbs during Years 7-9 and fulfil the above recommendations. These skills can be covered using the Mighty Minds Cognitive Verb packages and the *Pathways to Success: Cognitive Verbs* workbook, in conjunction with online testing on the Mighty Minds Portal. Some CVs are covered twice in this plan, as they are particularly important or to highlight nuances between similar CVs (for example Compare and Contrast). As this is a sample plan, it outlines a general order that will be suitable for most schools. However, these plans can be adapted to suit the needs of specific schools, if required.

After students have completed the Cognitive Verb lessons in Years 7-9, they will be prepared to work through the *Pathways to Success: Cognitive Verbs* workbook in Years 10 and 11. Mighty Minds can also provide a program with a recommended order for completing this workbook. Please email [portal@mightyminds.com.au](mailto:portal@mightyminds.com.au) or [director@mightyminds.com.au](mailto:director@mightyminds.com.au) to request a *PTS: CV* program.

# Year 7

Each term, students should be explicitly exposed to 8-10 Cognitive Verbs; allowance is made for some repetition where needed, or to allow for the students to focus on an assessment piece. However, we note that there should be 2-4 Cognitive Verbs that are the explicit focus of each of assessment piece. We recommend a baseline Literacy and Numeracy diagnostic test at the start of Year 7 to ascertain the students' initial achievement levels.

## Term 1

| Week | Cognitive Verb | Lesson Resource Code | PTS: CV Page |
|------|----------------|----------------------|--------------|
| 1    | Recall         | 27054828             | 247          |
| 2    | Define         | 27054816             | 146-147      |
| 3    | Understand     | 27054836             | 274-276      |
| 4    | Describe       | 27054819             | 153-155      |
| 5    | Explain        | 27054822             | 192-194      |
| 6    | Interpret      | 27054855             | 215-216      |
| 7    | Calculate      | 27054796             | 99-102       |
| 8    | Solve          | 27054801             | 260-261      |

## Term 2

| Week | Cognitive Verb                                   | Lesson Resource Code | PTS: CV Page |
|------|--|----------------------|--------------|
| 1    | Classify   | 27054834             | 109-111      |
| 2    | Categorise                                       | 27054854             | 103-104      |
| 3    | Comprehend                                       | 27054818             | 120-122      |
| 4    | Recognise  | 27054821             | 248-250      |
| 5    | Select   | 27054898             |              |
| 6    | Calculate (revision)                             | 27054796             | 99-102       |
| 7    | Solve (revision)                                 | 27054801             | 260-261      |
| 8    | <i>Post-testing using Cognitive Verb testing</i> |                      |              |

## Term 3

| Week | Cognitive Verb                                   | Lesson Resource Code | PTS: CV Page |
|------|--|----------------------|--------------|
| 1    | Examine  | 27054813             | 184-185      |
| 2    | Structure  | 27054848             | 262-264      |
| 3    | Sequence   | 27054824             | 256-257      |
| 4    | Construct  | 27054863             | 129-130      |
| 5    | Sketch   | 27054849             | 258-259      |
| 6    | Compare  | 27054795             | 117-119      |
| 7    | Contrast   | 27054798             | 131-133      |
| 8    | <i>Post-testing using Cognitive Verb testing</i> |                      |              |

## Term 4

| Week | Cognitive Verb              | Lesson Resource Code | PTS: CV Page       |
|------|-----------------------------|----------------------|--------------------|
| 1    | Clarify                     | 27054797             | 105-108            |
| 2    | Summarise                   | 27054812             | 265-267            |
| 3    | Organise                    | 27054831             | 236-238            |
| 4    | Discuss                     | 27054832             | 173-174            |
| 5    | Comment                     | 27054830             | 112-113            |
| 6    | Compare/Contrast (revision) | 27054795<br>27054798 | 117-119<br>131-133 |

## Year 8

As the students increase in metacognition and their familiarity with the Cognitive Verbs, the focus should be on their ability to self-assess the thoroughness of their responses. Based on Mighty Minds feedback, or other testing data, students can be grouped so that classes have shared strengths or weaknesses, allowing teachers to guide the students appropriately.

### Term 1

| Week | Cognitive Verb | Lesson Resource Code | PTS: CV Page |
|------|----------------|----------------------|--------------|
| 1    | Apply          | 27054794             | 84-86        |
| 2    | Deduce         | 27054807             | 142-145      |
| 3    | Infer          | 27054814             | 212-214      |
| 4    | Differentiate  | 27054853             | 168-170      |
| 5    | Discriminate   | 27054846             | 171-172      |
| 6    | Express        | 27054858             | 198-199      |
| 7    | Synthesise     | 27054811             | 269-271      |
| 8    | Hypothesise    | 27054851             | 206-207      |

### Term 2

| Week | Cognitive Verb                                      | Lesson Resource Code | PTS: CV Page |
|------|---|----------------------|--------------|
| 1    | Explore   | 27054823             | 195-197      |
| 2    | Develop   | 27054862             | 162-164      |
| 3    | Consider  | 27054838             | 126-128      |
| 4    | Assess  | 27054842             | 96-98        |
| 5    | Judge   | 27054857             | 220-223      |
| 6    | Document  | 27054867             | 178-180      |
| 7    | Analyse   | 27054799             | 82-83        |
| 8    | <i>Semester One post-testing of Cognitive Verbs</i> |                      |              |

### Term 3

| Week | Cognitive Verb     | Lesson Resource Code | PTS: CV Page |
|------|--------------------|----------------------|--------------|
| 1    | Communicate        | 27054837             | 114-116      |
| 2    | Justify            | 27054810             | 224-226      |
| 3    | Explain (revision) | 27054822             | 192-194      |
| 4    | Propose            | 27054820             | 241-243      |
| 5    | Modify             | 27054833             | 233-235      |
| 6    | Argue              | 27054802             | 94-95        |
| 7    | Demonstrate        | 27054825             | 148-149      |
| 8    | Analyse (revision) | 27054799             | 82-83        |

### Term 4

| Week | Cognitive Verb      | Lesson Resource Code | PTS: CV Page |
|------|---------------------|----------------------|--------------|
| 1    | Derive              | 27054800             | 150-152      |
| 2    | Determine           | 27054829             | 160-161      |
| 3    | Decide              | 27054835             | 140-141      |
| 4    | Make Decisions      | 27054856             | 227-229      |
| 5    | Predict             | 27054815             | 239-240      |
| 6    | <i>Post-testing</i> |                      |              |

## Year 9

With their growing confidence in recognising Cognitive Verbs and using their problem-solving skills, students should be actively breaking down the questions, and self-assessing their responses. As the bulk of the Cognitive Verbs have been covered by this time, a large number of more complex verbs will be repeated to allow students to fine-tune their skills.

### Term 1

| Week | Cognitive Verb        | Lesson Resource Code | PTS: CV Page |
|------|-----------------------|----------------------|--------------|
| 1    | Appreciate            | 27054865             | 90-93        |
| 2    | Resolve               | 27054806             | 253-255      |
| 3    | Analyse (revision)    | 27054799             | 82-83        |
| 4    | Synthesise (revision) | 27054811             | 269-271      |
| 5    | Prove                 | 27054803             | 244          |
| 6    | Manipulate            | 27054843             | 230-232      |
| 7    | Modify (revision)     | 27054833             | 233-235      |
| 8    | Calculate (revision)  | 27054796             | 99-102       |

### Term 2

| Week | Cognitive Verb                                      | Lesson Resource Code | PTS: CV Page |
|------|---|----------------------|--------------|
| 1    | Generate  | 27054839             | 203-205      |
| 2    | Distinguish   | 27054841             | 175-177      |
| 3    | Symbolise   | 27054850             | 268          |
| 4    | Devise  | 27054868             | 165-167      |
| 5    | Discriminate (revision)                             | 27054846             | 171-172      |
| 6    | Evaluate  | 27054847             | 181-183      |
| 7    | Use   | 27054817             | 277-278      |
| 8    | <i>Semester One post-testing of Cognitive Verbs</i> |                      |              |

### Term 3

| Week | Cognitive Verb | Lesson Resource Code | PTS: CV Page |
|------|----------------|----------------------|--------------|
| 1    | Experiment     | 27054808             | 189-191      |
| 2    | Conduct        | 27054864             | 123-125      |
| 3    | Test           | 27054845             | 272-273      |
| 4    | Design         | 27054861             | 156-159      |
| 5    | Create         | 27054844             | 134-137      |
| 6    | Realise        | 27054852             | 245-246      |
| 7    | Identify       | 27054860             | 208-209      |
| 8    | Extrapolate    | 27054804             | 200-202      |

### Term 4

| Week | Cognitive Verb                         | Lesson Resource Code | PTS: CV Page |
|------|--|----------------------|--------------|
| 1    | Reflect                                | 27054840             | 251-252      |
| 2    | Critique                               | 27054866             | 138-139      |
| 3    | Appraise                               | 27054809             | 87-89        |
| 4    | Execute                                | 27054827             | 186-188      |
| 5    | Implement                              | 27054859             | 210-211      |
| 6    | Investigate                            | 27054805             | 217-219      |
| 7    | <i>Post-testing of Cognitive Verbs</i> |                      |              |