

# 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 74 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	Useful Links
1	Recall	27054828	247	<a href="http://www.youtube.com/watch?v=EyehamdIV3w">www.youtube.com/watch?v=EyehamdIV3w</a>
2	Define	27054816	146-147	<a href="http://www.youtube.com/watch?v=im2vBov_Hhw">www.youtube.com/watch?v=im2vBov_Hhw</a>
3	Understand	27054836	274-276	<a href="http://www.youtube.com/watch?v=dltUGF8GdTw">www.youtube.com/watch?v=dltUGF8GdTw</a>
4	Describe	27054819	153-155	<a href="http://www.youtube.com/watch?v=JnYTzUVR5_8">www.youtube.com/watch?v=JnYTzUVR5_8</a>
5	Explain	27054822	192-194	<a href="http://www.youtube.com/watch?v=opqla5jiuwu">www.youtube.com/watch?v=opqla5jiuwu</a>
6	Interpret	27054855	215-216	<a href="http://www.youtube.com/watch?v=yeQ-6eyMQ_o">www.youtube.com/watch?v=yeQ-6eyMQ_o</a>
7	Calculate	27054796	99-102	<a href="http://www.youtube.com/watch?v=e4PTvXtz4GM">www.youtube.com/watch?v=e4PTvXtz4GM</a>
8	Solve	27054801	260-261	<a href="http://www.youtube.com/watch?v=XwNUmnDu1r8">www.youtube.com/watch?v=XwNUmnDu1r8</a>

## Term 2

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Classify	27054834	109-111	<a href="http://www.youtube.com/watch?v=-QHff5pRdM8">www.youtube.com/watch?v=-QHff5pRdM8</a>
2	Categorise	27054854	103-104	<a href="http://www.sciencealert.com/fruit-fly-brains-could-power-netflix-recommendations-search-engines">www.sciencealert.com/fruit-fly-brains-could-power-netflix-recommendations-search-engines</a>
3	Comprehend	27054818	120-122	<a href="http://www.youtube.com/watch?v=ZUDigw4LCYE">www.youtube.com/watch?v=ZUDigw4LCYE</a>
4	Recognise	27054821	248-250	<a href="http://www.youtube.com/watch?v=Y1InrGlbweY">www.youtube.com/watch?v=Y1InrGlbweY</a>
5	Calculate (revision)	27054796	99-102	<a href="http://www.youtube.com/watch?v=lvnSTezEvME">www.youtube.com/watch?v=lvnSTezEvME</a>
6	Solve (revision)	27054801	260-261	<a href="http://www.youtube.com/watch?v=N_8srGGX0kk">www.youtube.com/watch?v=N_8srGGX0kk</a>
7	Explain (revision)	27054822	192-194	<a href="http://www.youtube.com/watch?v=sweN8d4_MUg">www.youtube.com/watch?v=sweN8d4_MUg</a>
8	<i>Post-testing using Cognitive Verb testing</i>			

## Term 3

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Examine	27054813	184-185	<a href="http://apps.carleton.edu/curricular/history/resources/study/primary/">apps.carleton.edu/curricular/history/resources/study/primary/</a>
2	Structure	27054848	262-264	<a href="http://www.youtube.com/watch?v=NLzKqujmdGk">www.youtube.com/watch?v=NLzKqujmdGk</a>
3	Sequence	27054824	256-257	<a href="http://www.youtube.com/watch?v=5-11yi28uUo">www.youtube.com/watch?v=5-11yi28uUo</a>
4	Construct	27054863	129-130	<a href="http://www.youtube.com/watch?v=G6CU5uHltlw">www.youtube.com/watch?v=G6CU5uHltlw</a>
5	Sketch	27054849	258-259	<a href="http://www.youtube.com/watch?v=PIVqW_udrwc">www.youtube.com/watch?v=PIVqW_udrwc</a>
6	Compare	27054795	117-119	<a href="http://www.youtube.com/watch?v=NoxKH_v8b-8">www.youtube.com/watch?v=NoxKH_v8b-8</a>
7	Contrast	27054798	131-133	<a href="http://www.youtube.com/watch?v=h8kBli8ZyX8">www.youtube.com/watch?v=h8kBli8ZyX8</a>
8	<i>Post-testing using Cognitive Verb testing</i>			

## Term 4

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Clarify	27054797	105-108	<a href="http://www.youtube.com/watch?v=avew5rVAwi0">www.youtube.com/watch?v=avew5rVAwi0</a>
2	Summarise	27054812	265-267	<a href="http://www.youtube.com/watch?v=eGWO1ldEhtQ">www.youtube.com/watch?v=eGWO1ldEhtQ</a>
3	Organise	27054831	236-238	<a href="http://www.youtube.com/watch?v=RF6Jbdm5Ewo&amp;list=RDQMhXSUgU_6LG0&amp;index=13">www.youtube.com/watch?v=RF6Jbdm5Ewo&amp;list=RDQMhXSUgU_6LG0&amp;index=13</a>
4	Discuss	27054832	173-174	<a href="http://www.youtube.com/watch?time_continue=40&amp;v=2ADAY9AQm54">www.youtube.com/watch?time_continue=40&amp;v=2ADAY9AQm54</a>
5	Comment	27054830	112-113	<a href="http://penandthepad.com/write-book-commentary-4480356.html">penandthepad.com/write-book-commentary-4480356.html</a>
6	Compare/Contrast (revision)	27054795 27054798	117-119 131-133	<a href="http://www.youtube.com/watch?v=eUkgf-2NVO8">www.youtube.com/watch?v=eUkgf-2NVO8</a>

## 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	Useful Links
1	Apply	27054794	84-86	<a href="http://www.youtube.com/watch?v=elr2w5jrFbQ">www.youtube.com/watch?v=elr2w5jrFbQ</a>
2	Deduce	27054807	142-145	<a href="http://www.psychologytoday.com/blog/creating-in-flow/201303/8-strategies-thinking-more-sherlock-holmes">www.psychologytoday.com/blog/creating-in-flow/201303/8-strategies-thinking-more-sherlock-holmes</a>
3	Infer	27054814	212-214	<a href="http://www.youtube.com/watch?v=to30Ajm2epQ">www.youtube.com/watch?v=to30Ajm2epQ</a>
4	Differentiate	27054853	168-170	<a href="http://www.youtube.com/watch?v=rFdbY_V7vlo">www.youtube.com/watch?v=rFdbY_V7vlo</a>
5	Discriminate	27054846	171-172	<a href="http://www.youtube.com/watch?v=mftd8a6gqEw">www.youtube.com/watch?v=mftd8a6gqEw</a>
6	Express	27054858	198-199	<a href="http://www.youtube.com/watch?v=g6jeSuHYhyY">www.youtube.com/watch?v=g6jeSuHYhyY</a>
7	Synthesise	27054811	269-271	<a href="http://www.youtube.com/watch?v=7dEGoJdb6O0">www.youtube.com/watch?v=7dEGoJdb6O0</a>
8	Hypothesise	27054851	206-207	<a href="http://www.youtube.com/watch?v=eqj8j47JsT0">www.youtube.com/watch?v=eqj8j47JsT0</a>

### Term 2

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Explore	27054823	195-197	<a href="http://www.space.com/38700-nasa-history.html">www.space.com/38700-nasa-history.html</a>
2	Develop	27054862	162-164	<a href="http://www.youtube.com/watch?v=Jt3-PIC2nCs">www.youtube.com/watch?v=Jt3-PIC2nCs</a>
3	Consider	27054838	126-128	<a href="http://www.petmd.com/dog/care/evr_multi_10_things_consider_before_pet_adoption">www.petmd.com/dog/care/evr_multi_10_things_consider_before_pet_adoption</a>
4	Assess	27054842	96-98	<a href="http://www.huffingtonpost.com/dr-nella-ann-roberts/how-to-assess-your-situation-to-improve-your-life_b_9368368.html">www.huffingtonpost.com/dr-nella-ann-roberts/how-to-assess-your-situation-to-improve-your-life_b_9368368.html</a>
5	Judge	27054857	220-223	<a href="http://www.youtube.com/watch?v=v8Z6rdLjloA">www.youtube.com/watch?v=v8Z6rdLjloA</a>
6	Document	27054867	178-180	<a href="http://www.youtube.com/watch?v=s3SjOjNgeVw">www.youtube.com/watch?v=s3SjOjNgeVw</a>
7	Analyse	27054799	82-83	<a href="http://www.youtube.com/watch?v=rtQxZTn2gK0">www.youtube.com/watch?v=rtQxZTn2gK0</a>
8	<i>Semester One post-testing of Cognitive Verbs</i>			

### Term 3

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Communicate	27054837	114-116	<a href="http://www.youtube.com/watch?v=mPRUNGGORDo">www.youtube.com/watch?v=mPRUNGGORDo</a>
2	Justify	27054810	224-226	<a href="http://www.youtube.com/watch?v=UgcK2tFFpEQ">www.youtube.com/watch?v=UgcK2tFFpEQ</a>
3	Explain (revision)	27054822	192-194	<a href="http://www.youtube.com/watch?v=WEEuwmMIPas">www.youtube.com/watch?v=WEEuwmMIPas</a>
4	Propose	27054820	241-243	<a href="http://www.youtube.com/watch?v=7P8_f2pVRLE">www.youtube.com/watch?v=7P8_f2pVRLE</a>
5	Modify	27054833	233-235	<a href="http://www.youtube.com/watch?v=cbKc_qilgzA">www.youtube.com/watch?v=cbKc_qilgzA</a>
6	Argue	27054802	94-95	<a href="http://www.youtube.com/watch?v=oAUKxr946SI&amp;t=10s">www.youtube.com/watch?v=oAUKxr946SI&amp;t=10s</a>
7	Demonstrate	27054825	148-149	<a href="http://www.youtube.com/watch?v=Il6hP0Wxle8">www.youtube.com/watch?v=Il6hP0Wxle8</a>
8	Analyse (revision)	27054799	82-83	<a href="http://www.youtube.com/watch?v=rtQxZTn2gK0">www.youtube.com/watch?v=rtQxZTn2gK0</a>

### Term 4

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Derive	27054800	150-152	<a href="http://www.youtube.com/watch?v=i6bCiO8xfdg">www.youtube.com/watch?v=i6bCiO8xfdg</a>
2	Determine	27054829	160-161	<a href="http://www.youtube.com/watch?v=z0yBPZqExjl">www.youtube.com/watch?v=z0yBPZqExjl</a>
3	Decide	27054835	140-141	<a href="http://www.youtube.com/watch?v=N2ijF2I94pg">www.youtube.com/watch?v=N2ijF2I94pg</a>
4	Make Decisions	27054856	227-229	<a href="http://www.forbes.com/sites/mikemiyatt/2012/03/28/6-tips-for-making-better-decisions/#145d07f934dc">www.forbes.com/sites/mikemiyatt/2012/03/28/6-tips-for-making-better-decisions/#145d07f934dc</a>
5	Predict	27054815	239-240	<a href="http://www.youtube.com/watch?v=gFB-qpiKccs">www.youtube.com/watch?v=gFB-qpiKccs</a>
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	Useful Links
1	Appreciate	27054865	90-93	<a href="https://courses.lumenlearning.com/masteryart1-91/chapter/oer-1-40/">courses.lumenlearning.com/masteryart1-91/chapter/oer-1-40/</a>
2	Resolve	27054806	253-255	<a href="http://www.huffingtonpost.com/joyce-marter/conscious-relationships_b_4504510.html">www.huffingtonpost.com/joyce-marter/conscious-relationships_b_4504510.html</a>
3	Analyse (revision)	27054799	82-83	<a href="https://www.youtube.com/watch?v=rtQxZTn2gK0">www.youtube.com/watch?v=rtQxZTn2gK0</a>
4	Synthesise (revision)	27054811	269-271	<a href="https://www.youtube.com/watch?v=p3ZNAZk8w68">www.youtube.com/watch?v=p3ZNAZk8w68</a>
5	Prove	27054803	244	<a href="http://www.mathsisfun.com/geometry/triangles-congruent-finding.html">www.mathsisfun.com/geometry/triangles-congruent-finding.html</a>
6	Manipulate	27054843	230-232	<a href="https://www.khanacademy.org/math/algebra2/modeling-with-algebra/manipulating-formulas/v/example-of-solving-for-a-variable">www.khanacademy.org/math/algebra2/modeling-with-algebra/manipulating-formulas/v/example-of-solving-for-a-variable</a>
7	Modify (revision)	27054833	233-235	<a href="http://www.betterhealth.vic.gov.au/health/healthyliving/food-genetically-modified-gm">www.betterhealth.vic.gov.au/health/healthyliving/food-genetically-modified-gm</a>
8	Calculate (revision)	27054796	99-102	<a href="https://www.youtube.com/watch?v=hk0lVuSYfbE">www.youtube.com/watch?v=hk0lVuSYfbE</a>

### Term 2

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Generate	27054839	203-205	<a href="http://qz.com/488701/humans-are-confusing-music-composed-by-a-computer-for-j-s-bach/">qz.com/488701/humans-are-confusing-music-composed-by-a-computer-for-j-s-bach/</a>
2	Distinguish	27054841	175-177	<a href="https://www.youtube.com/watch?v=Gz9ZGW_1oMM&amp;t=97s">www.youtube.com/watch?v=Gz9ZGW_1oMM&amp;t=97s</a>
3	Symbolise	27054850	268	<a href="https://www.youtube.com/watch?v=YMJT7Zh0ecw">www.youtube.com/watch?v=YMJT7Zh0ecw</a>
4	Devise	27054868	165-167	<a href="http://thetheatretimes.com/what-is-devised-theatre/">thetheatretimes.com/what-is-devised-theatre/</a>
5	Discriminate (revision)	27054846	171-172	<a href="https://www.youtube.com/watch?v=qR9lBHzKknk">www.youtube.com/watch?v=qR9lBHzKknk</a>
6	Evaluate	27054847	181-183	<a href="https://www.youtube.com/watch?v=PLTOVoHbH5c">www.youtube.com/watch?v=PLTOVoHbH5c</a>
7	Use	27054817	277-278	<a href="https://www.youtube.com/watch?v=7MQUIYsmQhc">www.youtube.com/watch?v=7MQUIYsmQhc</a>
8	<i>Semester One post-testing of Cognitive Verbs</i>			

### Term 3

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Experiment	27054808	189-191	<a href="https://www.youtube.com/watch?v=86ChgK38EIA">www.youtube.com/watch?v=86ChgK38EIA</a>
2	Conduct	27054864	123-125	<a href="https://www.youtube.com/watch?v=-EDYj0lYO_g">www.youtube.com/watch?v=-EDYj0lYO_g</a>
3	Test	27054845	272-273	<a href="https://www.youtube.com/watch?v=h2tNAGlPebY">www.youtube.com/watch?v=h2tNAGlPebY</a>
4	Design	27054861	156-159	<a href="http://www.designimo.com/create-logo">www.designimo.com/create-logo</a>
5	Create	27054844	134-137	<a href="https://www.youtube.com/watch?v=QM1tUwpy-yQ">www.youtube.com/watch?v=QM1tUwpy-yQ</a>
6	Realise	27054852	245-246	<a href="http://www.thewordfactory.com/draw-your-ideas/">www.thewordfactory.com/draw-your-ideas/</a>
7	Identify	27054860	208-209	<a href="http://study.com/academy/lesson/identifying-interpreting-independent-dependent-variables.html">study.com/academy/lesson/identifying-interpreting-independent-dependent-variables.html</a>
8	Extrapolate	27054804	200-202	<a href="https://www.youtube.com/watch?v=c4_MJg_c49k&amp;t=94s">www.youtube.com/watch?v=c4_MJg_c49k&amp;t=94s</a>

### Term 4

Week	Cognitive Verb	Lesson Resource Code	PTS: CV Page	Useful Links
1	Reflect	27054840	251-252	<a href="http://www.open.ac.uk/choose/unison/develop/my-skills/self-reflection">www.open.ac.uk/choose/unison/develop/my-skills/self-reflection</a>
2	Critique	27054866	138-139	<a href="https://www.youtube.com/watch?v=msqBvOi08lk">www.youtube.com/watch?v=msqBvOi08lk</a>
3	Appraise	27054809	87-89	<a href="http://www.artspace.com/magazine/art_101/art_market/anatomy_of_an_art_appraisal-51564">www.artspace.com/magazine/art_101/art_market/anatomy_of_an_art_appraisal-51564</a>
4	Execute	27054827	186-188	<a href="https://www.youtube.com/watch?v=jegRfKXkOks">www.youtube.com/watch?v=jegRfKXkOks</a>
5	Implement	27054859	210-211	<a href="https://www.youtube.com/watch?v=XGAvSsjVA8U">www.youtube.com/watch?v=XGAvSsjVA8U</a>
6	Investigate	27054805	217-219	<a href="http://archives.fbi.gov/archives/fun-games/kids">archives.fbi.gov/archives/fun-games/kids</a>
7	<i>Post-testing of Cognitive Verbs</i>			