

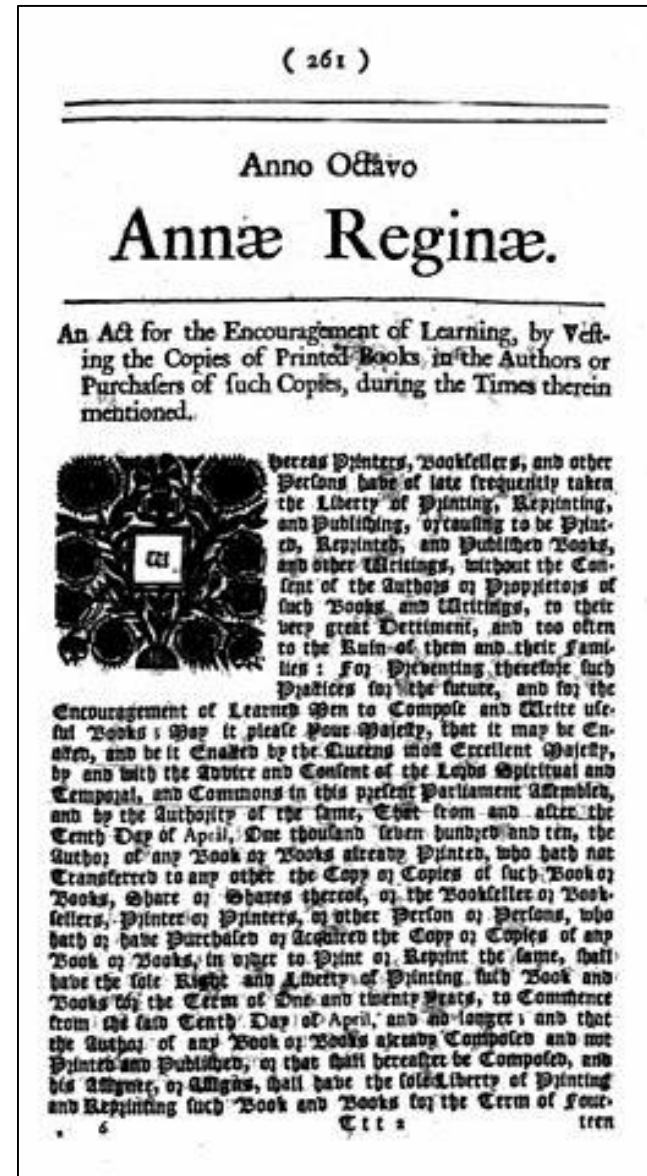
Copyright for Education

Towards Open Educational Resources

In the beginning...

Statute of Anne

- *Statue of Anne 1710*
- “An Act for the Encouragement of Learning”
- Copyright owned by authors, rather than publishers.
- Establishes the first legal deposit scheme (a severe fine of £5 if a book was not deposited).
- Term of copyright = 14 years
- Books only



Copyright in Schools

In 2017, the Australian Joint Parliamentary Committee on Treaties heard that schools and TAFE spend approximately \$700 million per year (2012 figures) reproducing third-party copyright material in the classroom.

Comprised of:

- Direct purchase / Licensing
- Statutory Licensing

To reduce these costs we need Open Educational Resources (OER)

<http://www.health.qld.gov.au>
Version: 14, 20th October, 2009

a Queensland Health *fact sheet*

Head Lice

- Comb the hair with a fine tooth head lice comb, wiping the comb onto a white tissue after each sweep.
- Repeat until whole head is combed and little treatment formulation is visible on the hair.
- After five minutes examine the tissues and assess the lice as dead (no movement), inactive (louse is stationary but moving legs or antennae) or active (louse moving).
- If the product is effective, all lice should be dead.

What to do if the product of choice does not work

If the product is not effective, ie. head lice are not dead at the end of exposure time, you can switch to the non-chemical method while waiting 7-10 days before re-treating with a different active ingredient. Continue checking the effectiveness of treatment products until an effective product is found, or use the non-chemical method.

Why treatment agents may not work

True treatment failure has occurred when live head lice are detected immediately after the end of exposure time to a treatment agent. Failures can sometimes occur even when solutions are used according to the manufacturer's



(c) 2008 The State of Queensland (Queensland Health)

Page 3 of 3

Disclaimer: Please note that any material printed is regarded as an uncontrolled copy. It is the responsibility of the person printing the document to refer frequently to <http://www.health.qld.gov.au> for updates.

- Wash combs and hair brushes after each use (60°C for 30 seconds).
- Pillow cases of persons known to be infested should be washed daily on hot cycle or put in the clothes dryer for 15 minutes.
- Treat all household members whose head lice have been detected.
- Keep hair short, particularly during an outbreak. It is easier to detect and treat head lice in short hair.
- Notify your school so that others can be alerted to the problem and can check for head lice and arrange treatment if necessary.

Help and Assistance

For more information, please contact your local population health unit. Families can get help in managing head lice from public health nurses, school health nurses, child health clinics, pharmacists and family doctors.

The Head Lice in Primary Schools Kit is also available to primary schools. Contact your local school for information.

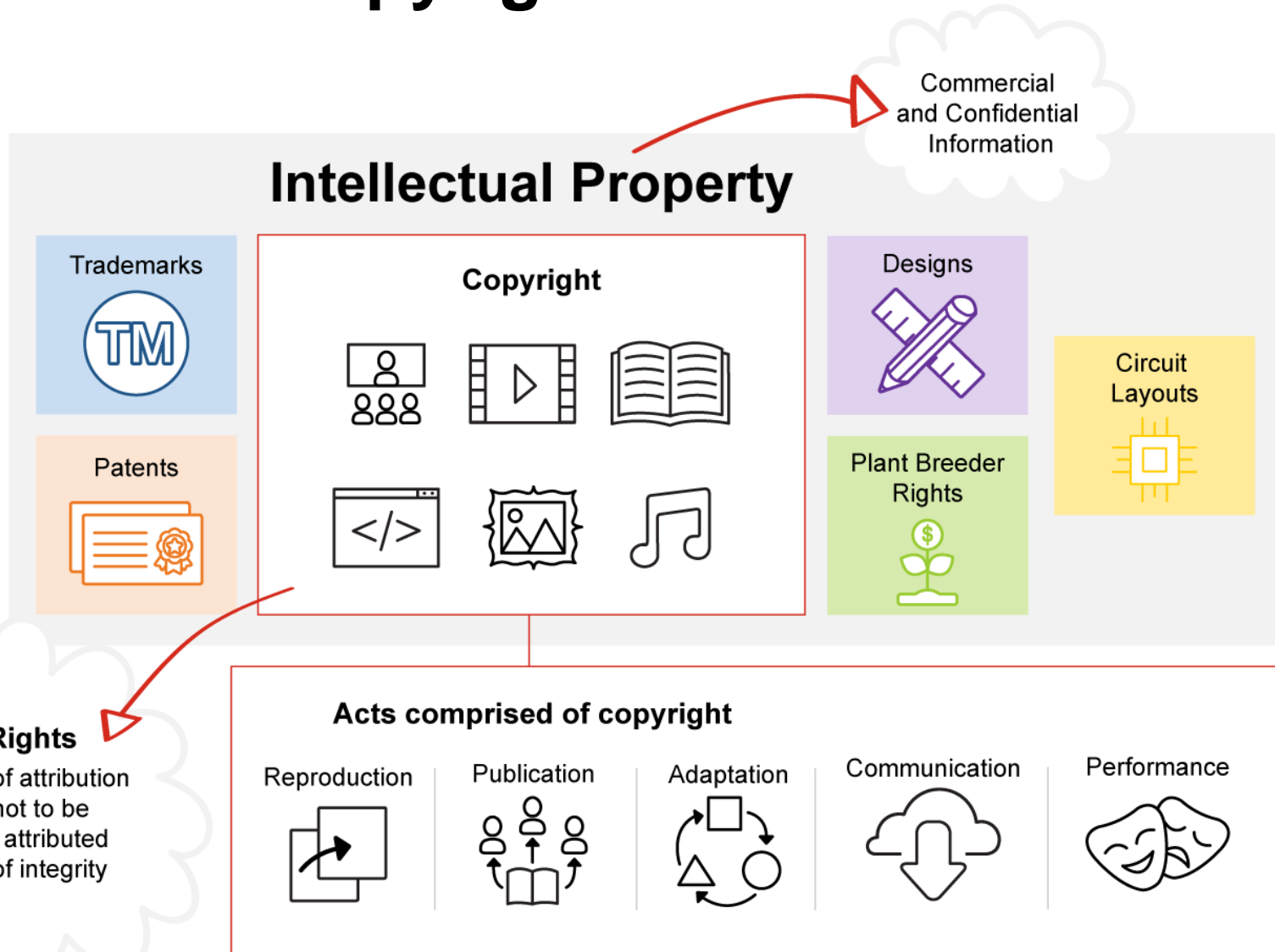


(c) 2008 The State of Queensland (Queensland Health)

Page 3 of 3

Disclaimer: Please note that any material printed is regarded as an uncontrolled copy. It is the responsibility of the person printing the document to refer frequently to <http://www.health.qld.gov.au> for updates.

Where does copyright fit?



Where do you find Copyright?

Copyright	No Copyright
Literary Works	Recipes
Artistic Works	Titles
Musical Works	Factual Information
Dramatic Works	Material which lacks originality
Sound recordings	Computer generated data / raw data
Broadcasts	Certain government materials (e.g. US Federal Government)
Cinematograph films	Material which is too small or insignificant
Computer programs	Mathematical equations
	Court judgements
	Material which is too old

How Old is Too Old...

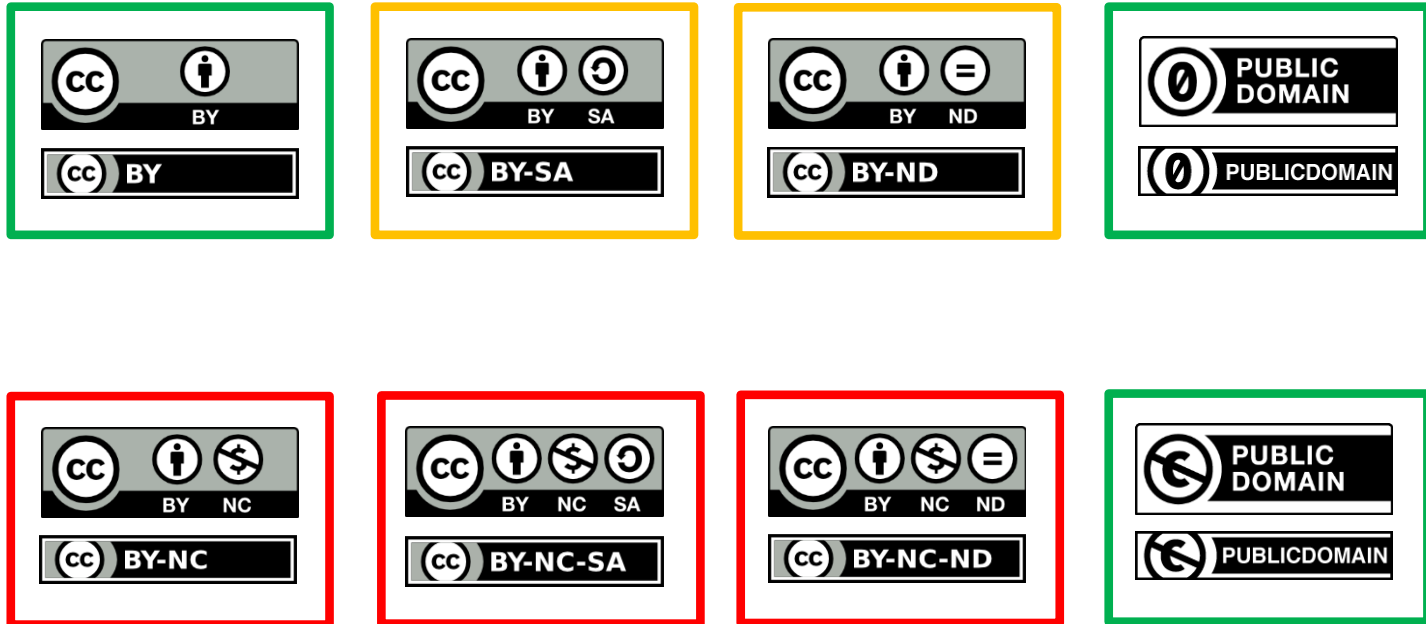
Material	Factors affecting	Copyright expired if...	Otherwise duration is
Literary, dramatic and musical works, and engravings	Made public before creator's death	Author died before 1 Jan 1955	Life of author + 70 years
	Not made public before 1 Jan 2019	Author died before 1 Jan 1949	Life of author + 70 years
Computer programs		Author died before 1 Jan 1955	Life of author + 70 years
Artistic works (other than photographs or engravings)		Author died before 1 Jan 1955	Life of author + 70 years
Photographs		Made before 1 Jan 1955	Life of author + 70 years
Sound Recordings, Films (made on or after 1 May 1969*)	Made public on, before or after 1 Jan 2019	Made before 1 Jan 1955	Date first made public + 70 years, otherwise date made
	Never made public	Made before 1 Jan 1955	Date made + 70 years
Government works, sound recordings, and films		Made before 1 Jan 1969	Date made + 50 years

What is Creative Commons?



Fixes the copywrong's in copyright. A simple, standardised way to grant copyright permissions.

Meet the Creative Commons Family





Attribution 4.0 International (CC BY 4.0)

This is a human-readable summary of (and not a substitute for) the [license](#). [Disclaimer](#).

You are free to:

Share — copy and redistribute the material in any medium or format

Adapt — remix, transform, and build upon the material for any purpose, even commercially.



The licensor cannot revoke these freedoms as long as you follow the license terms.

Under the following terms:



Attribution — You must give [appropriate credit](#), provide a link to the license, and [indicate if changes were made](#). You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use.

No additional restrictions — You may not apply legal terms or [technological measures](#) that legally restrict others from doing anything the license permits.

Notices:

You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable [exception or limitation](#).

No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as [publicity, privacy, or moral rights](#) may limit how you use the material.



Attribution 4.0 International (CC BY 4.0)

By exercising the Licensed Rights (defined below), You accept and agree to be bound by the terms and conditions of this Creative Commons Attribution 4.0 International Public License ("Public License"). To the extent this Public License may be interpreted as a contract, You are granted the Licensed Rights in consideration of Your acceptance of these terms and conditions, and the Licensor grants You such rights in consideration of benefits the Licensor receives from making the Licensed Material available under these terms and conditions.

Section 1 - Definitions.

- a. Adapted Material** means material subject to Copyright and Similar Rights that is derived from or based upon the Licensed Material and in which the Licensed Material is translated, altered, arranged, transformed, or otherwise modified in a manner requiring permission under the Copyright and Similar Rights held by the Licensor. For purposes of this Public License, where the Licensed Material is a musical work, performance, or sound recording, Adapted Material is always produced where the Licensed Material is synched in timed relation with a moving image.
- b. Adapter's License** means the license You apply to Your Copyright and Similar Rights in Your contributions to Adapted Material in accordance with the terms and conditions of this Public License.
- c. Copyright and Similar Rights** means copyright and/or other rights closely related to copyright including, without limitation, performance, broadcast, sound recording, and Sui Generis Database Rights, without regard to how the rights are labeled or categorized. For purposes of this Public License, the rights specified in Section 3B(1)-(2) are not Copyright and Similar Rights.
- d. Effective Technological Measures** means those measures that, in the absence of proper authority, may not be circumvented under laws fulfilling obligations under Article 11 of the WIPO Copyright Treaty adopted on December 20, 1996, and/or similar international agreements.
- e. Exceptions and Limitations** means fair use, fair dealing, and/or any other exception or limitation to Copyright and Similar Rights that applies to Your use of the Licensed Material.
- f. Licensed Material** means the artistic or literary work, database, or other material to which the Licensor applied this Public License.
- g. Licensed Rights** means the rights granted to You subject to the terms and conditions of this Public License, which are limited to all Copyright and Similar Rights that apply to Your use of the Licensed Material and that the Licensor has authority to license.
- h. Licensor** means the individual(s) or entity(ies) granting rights under this Public License.
- i. Share** means to provide material to the public by any means or process that requires permission under the Licensed Rights, such as reproduction, public display, public performance, distribution, dissemination, communication, or importation, and to make material available to the public including in ways that members of the public may access the material from a place and a time individually chosen by them.
- j. Sui Generis Database Rights** means rights other than copyright resulting from Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, as amended and/or succeeded, as well as other essentially equivalent rights anywhere in the world.
- k. You** means the individual or entity exercising the Licensed Rights under this Public License. **Your** has a corresponding meaning.

Section 2 - Scope.

a. License grant.

- a. Subject to the terms and conditions of this Public License, the Licensor hereby grants You a worldwide, royalty-free, non-sub licensable, non-exclusive, irrevocable license to exercise the Licensed Rights in the Licensed Material to:
- a. reproduce and Share the Licensed Material, in whole or in part, and
- b. produce, reproduce, and Share Adapted Material.
- b. **Exceptions and Limitations.** For the avoidance of doubt, where Exceptions and Limitations apply to Your use, this Public License does not apply, and You do not need to comply with its terms and conditions.
- c. **Term.** The term of this Public License is specified in Section 6(a).
- d. **Media and formats technical modifications allowed.** The Licensor authorizes You to exercise the Licensed Rights in all media and formats whether now known or hereafter created, and to make technical modifications necessary to do so. The Licensor waives and/or agrees not to assert any right or authority to forbid You from making technical modifications necessary to exercise the Licensed Rights, including technical modifications necessary to circumvent Effective Technological Measures. For purposes of this Public License, simply making modifications authorized by this Section 2(a)(4) never produces Adapted Material.
- e. **Downstream recipients.** Where You exercise the Licensed Rights in a public display or other transmission of any form, You must, if You have a合法权利, make it clear to any recipient of the Licensed Material that You are exercising the Licensed Rights under this Public License.
- f. **No additional restrictions.** You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, the Licensed Material if doing so restricts exercise of the Licensed Rights by any recipient of the Licensed Material.
- g. **No endorsement.** Nothing in this Public License constitutes or may be construed as permission to assert or imply that You are, or that Your use of the Licensed Material is, connected with, or sponsored, endorsed, or granted official status by, the Licensor or others designated to receive attribution as provided in Section 3(a)(3)(A)(i).
- b. Other rights.**
- a. Moral rights, such as the right of integrity, are not licensed under this Public License, nor are publicity, privacy, and/or other similar personality rights; however, to the extent possible, the Licensor waives and/or agrees not to assert any such rights held by the Licensor to the limited extent necessary to allow You to exercise the Licensed Rights, but not otherwise.
- b. Patent and trademark rights are not licensed under this Public License.
- c. To the extent possible, the Licensor waives any right to collect royalties from You for the exercise of the Licensed Rights, whether directly or through a collecting society under any voluntary or wivable statutory or compulsory licensing scheme. In all other cases the Licensor expressly reserves any right to collect such royalties.

Section 3 - License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the following conditions.

a. Attribution.

- a. If You Share the Licensed Material (including in modified form), You must:
- a. retain the following if it is supplied by the Licensor with the Licensed Material:
- a. identification of the creator(s) of the Licensed Material and any others designated to receive attribution, in any reasonable manner requested by the Licensor (including by pseudonym if designated);
- b. a copyright notice;
- c. a notice that refers to this Public License;
- d. a notice that refers to the disclaimer of warranties;
- e. a URL or hyperlink to the Licensed Material to the extent reasonably practicable;
- b. indicate if You modified the Licensed Material and retain an indication of any previous modifications; and
- c. indicate the Licensed Material is licensed under this Public License, and include the text "or the URL or hyperlink to, this Public License.
- b. You may satisfy the conditions in Section 3(a)(1) in any reasonable manner based on the medium, means, and context in which You Share the Licensed Material. For example, it may be reasonable to satisfy the conditions by providing a URL or hyperlink to a resource that includes the required information.
- c. If requested by the Licensor, You must remove any of the information required by Section 3(a)(1)(A) to the extent reasonably practicable.
- d. If You Share Adapted Material You produce, the Adapter's License You apply must not prevent recipients of the Adapted Material from complying with this Public License.

Section 4 - Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that apply to Your use of the Licensed Material:

- a. for the avoidance of doubt, Section 2(a)(1) grants You the right to extract, reuse, reproduce, and Share all or a substantial portion of the contents of the database;
- b. if You include all or a substantial portion of the database contents in a database in which You have Sui Generis Database Rights, then the database in which You have Sui Generis Database Rights (but not its individual contents) is Adapted Material; and
- c. You must comply with the conditions in Section 3(a) if You Share all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not replace Your obligations under this Public License where the Licensed Rights include other Copyright and Similar Rights. **Section 5 - Disclaimer of Warranties and Limitation of Liability.**

- a. **Unless otherwise separately undertaken by the Licensor, to the extent possible, the Licensor offers the Licensed Material as-is and as available, and makes no representations or warranties of any kind concerning the Licensed Material, whether express, implied, statutory, or other. This includes, without limitation, warranties of title, merchantability, fitness for a particular purpose, non-infringement, absence of latent or other defects, accuracy, or the presence or absence of errors, whether or not known or discoverable. Where disclaimers of warranties are not allowed in full or in part, this disclaimer may not apply to You.**
- b. **To the extent possible, in no event will the Licensor be liable to You or any legal entity (including, without limitation, negligence) or otherwise for any direct, special, indirect, incidental, consequential, punitive, exemplary, or other losses, costs, expenses, or damages arising out of this Public License or use of the Licensed Material, even if the Licensor has been advised of the possibility of such losses, costs, expenses, or damages. Where a limitation of liability is not allowed in full or in part, this limitation may not apply to You.**

The disclaimer of warranties and limitation of liability provided above shall be interpreted in a manner that, to the extent possible, most closely approximates an absolute disclaimer and waiver of all liability.

Section 6 - Term and Termination.

a. This Public License applies for the term of the Copyright and Similar Rights licensed here. However, if You fail to comply with this Public License, then Your rights under this Public License terminate automatically.

b. Where Your right to use the Licensed Material has terminated under Section 6(a), it reinstates:

- a. automatically as of the date the violation is cured, provided it is cured within 30 days of Your discovery of the violation; or
- b. upon express reinstatement by the Licensor.

c. For the avoidance of doubt, this Section 6(b) does not affect any right the Licensor may have to seek remedies for Your violations of this Public License.

d. For the avoidance of doubt, the Licensor may also offer the Licensed Material under separate terms or conditions or stop distributing the Licensed Material at any time; however, doing so will not terminate this Public License.

e. Sections 1, 5, 6, 7, and 8 survive termination of this Public License.

Section 7 - Other Terms and Conditions.

a. The Licensor shall not be bound by any additional or different terms or conditions communicated by You unless expressly agreed.

b. Any arrangements, understandings, or agreements regarding the Licensed Material not stated herein are separate from and independent of the terms and conditions of this Public License.

Section 8 - Interpretation.

a. For the avoidance of doubt, this Public License does not, and shall not be interpreted to, reduce, limit, restrict, or impose conditions on any use of the Licensed Material that could lawfully be made without permission under this Public License.

b. To the extent possible, if any provision of this Public License is deemed unenforceable, it shall be automatically reformed to the minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.

c. No term or condition of this Public License will be waived and no failure to comply consented to unless expressly agreed to by the Licensor.

d. Nothing in this Public License constitutes or may be interpreted as a limitation upon, or waiver of, any privileges and immunities that apply to the Licensor or You, including from the legal processes of any jurisdiction or authority

What does CC look like in the wild?



This document is licensed under the [Creative Commons Attribution 4.0 Licence](https://creativecommons.org/licenses/by/4.0/)

Licence URL: <https://creativecommons.org/licenses/by/4.0/>

Attribution: © Royal Society of Queensland, 2019

Copyright in Education, in Summary

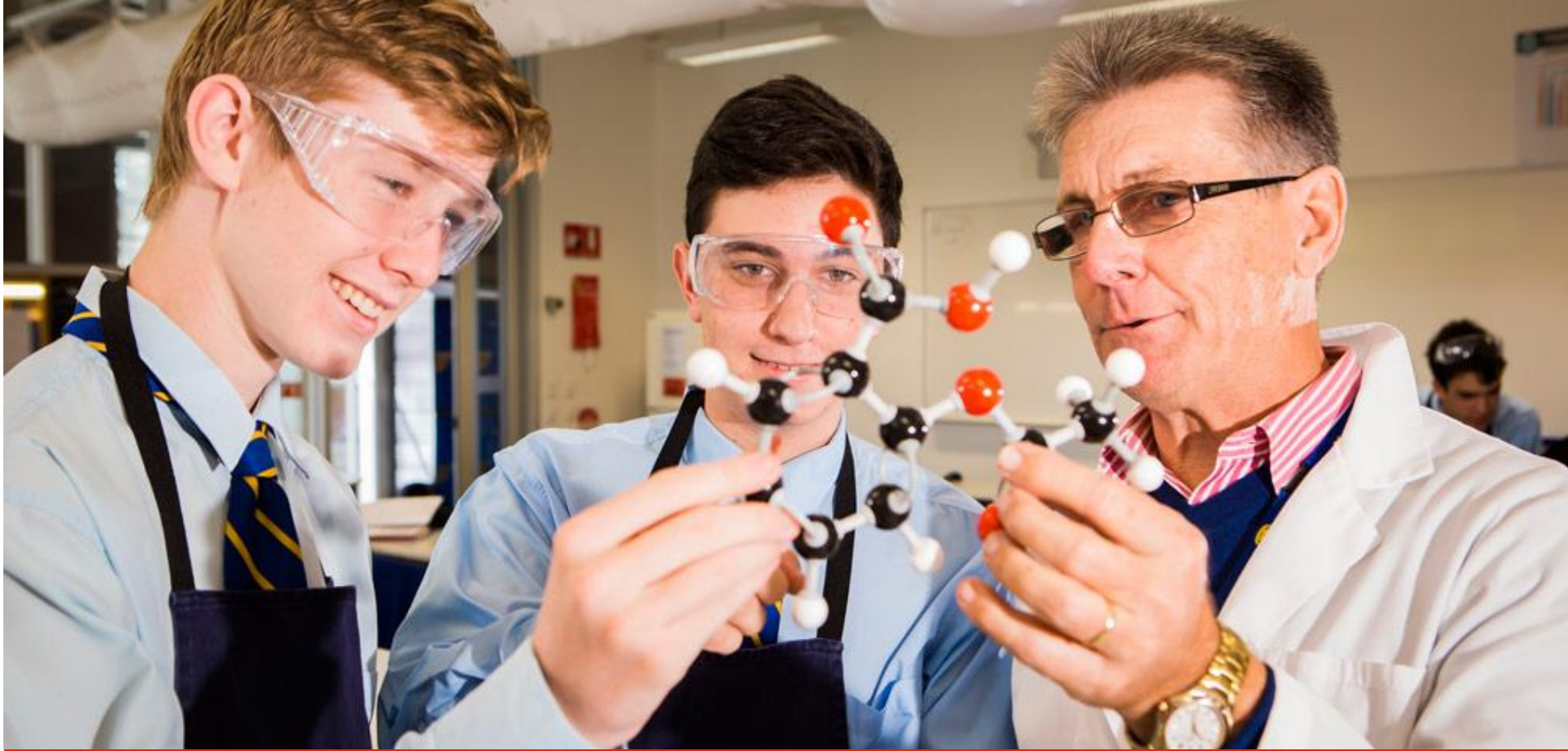
- The Paris Declaration is the authority for the policy of developing of OER in Australia.
- The QCAA and the education sector need OER.
- OER can only be created using an 'open' licence.
- The best open licences are the Creative Commons Attribution and ShareAlike Licences.
- The QCAA actively seeks openly licensed material for inclusion in its resources.

Thank You

Baden Appleyard

baden.appleyard@qcaa.qld.edu.au

(07) 3120 6157

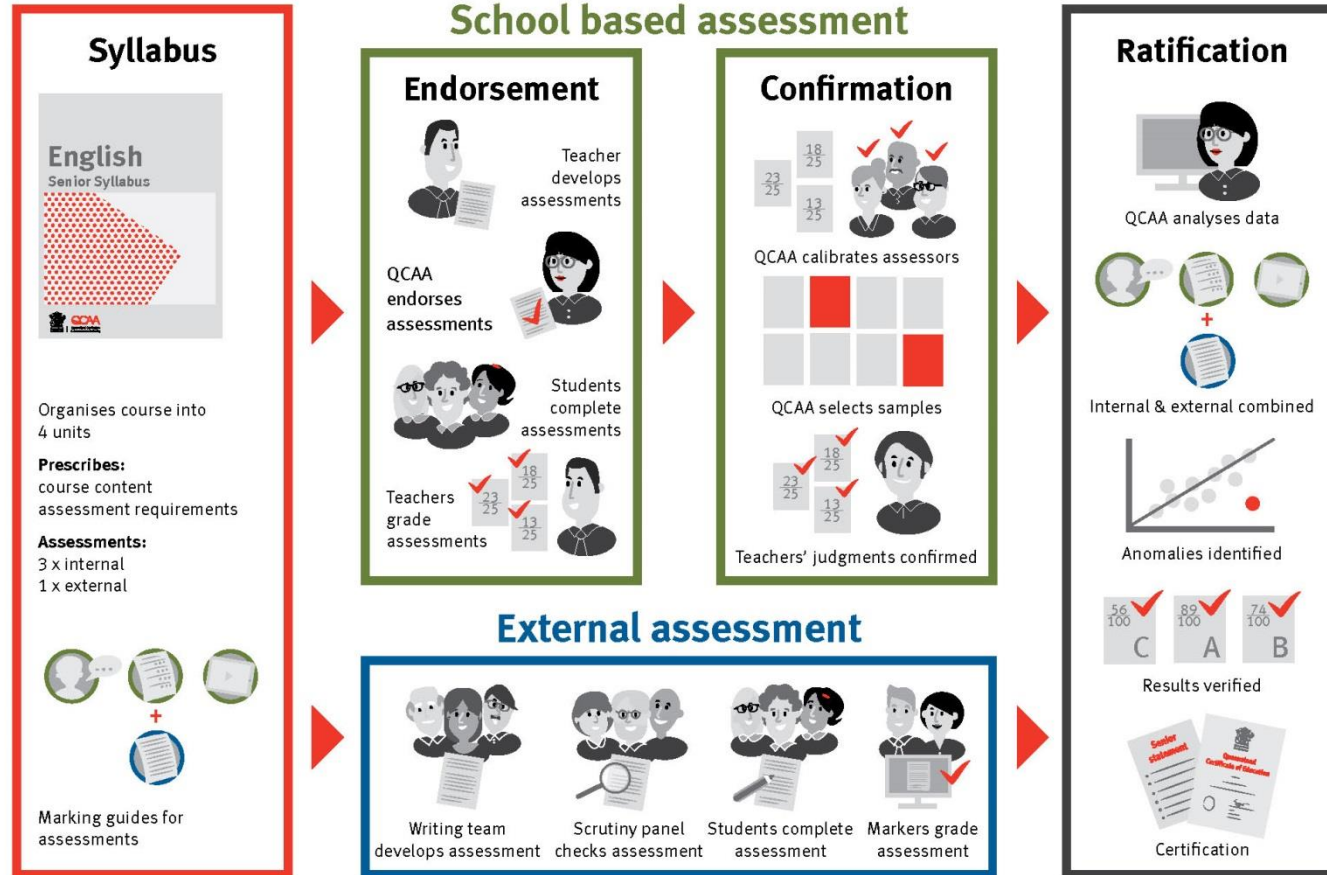


New senior Science syllabuses

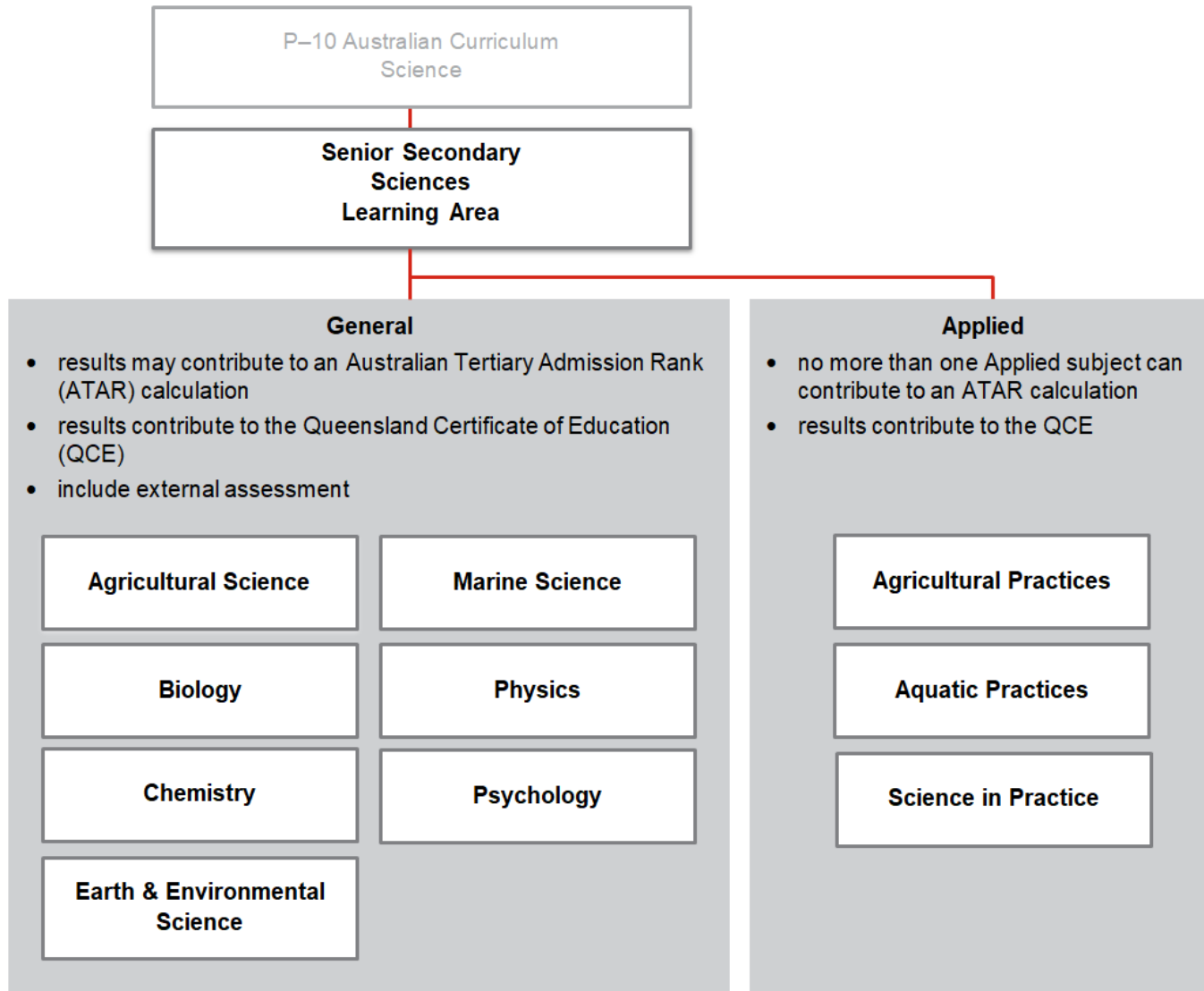
Presentation to the Royal Society of Queensland

Senior phase changes — the big picture

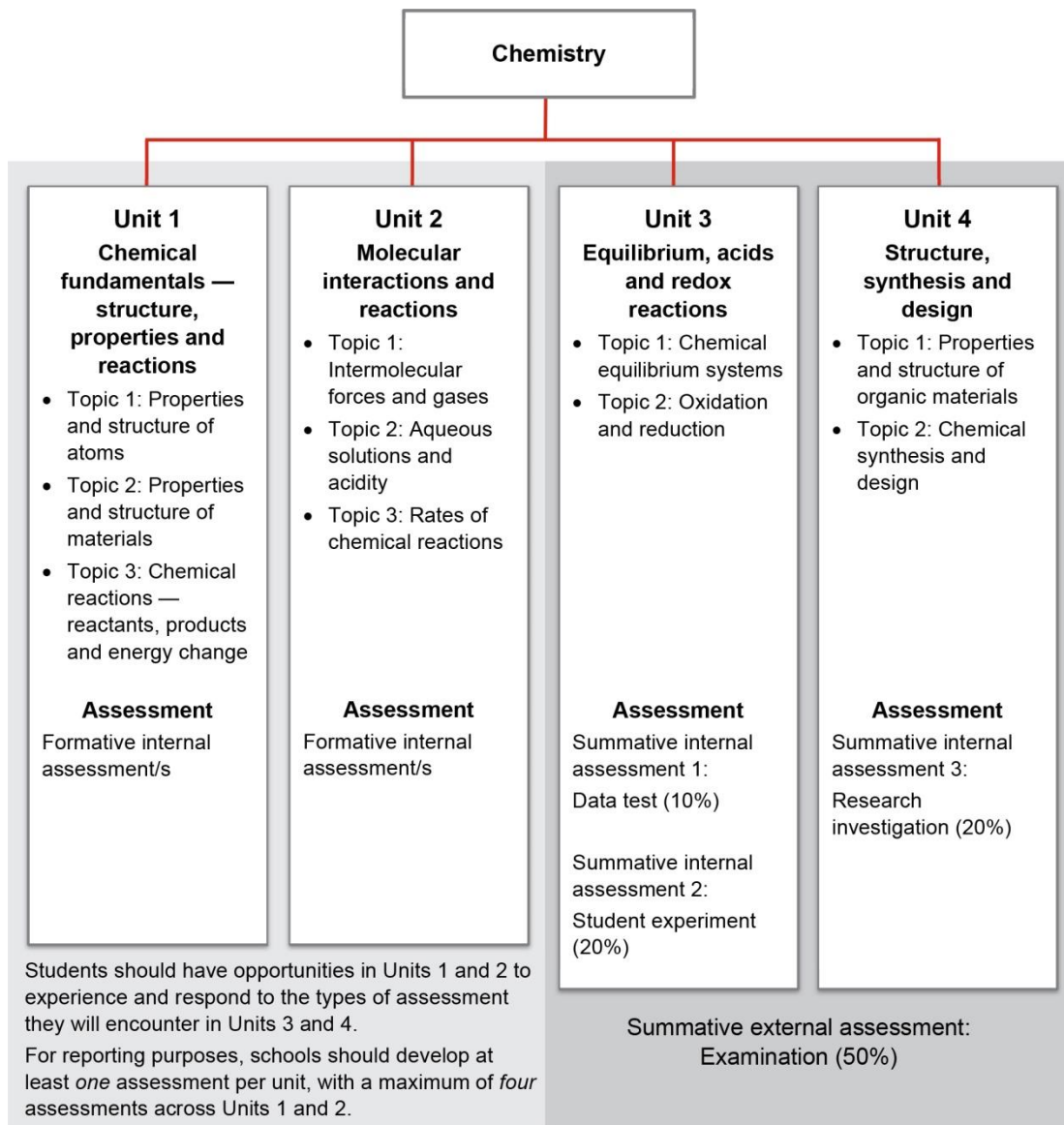
Valid and reliable senior assessment



Senior phase changes — Science syllabuses



Senior phase changes — course structure



Using the Science syllabuses

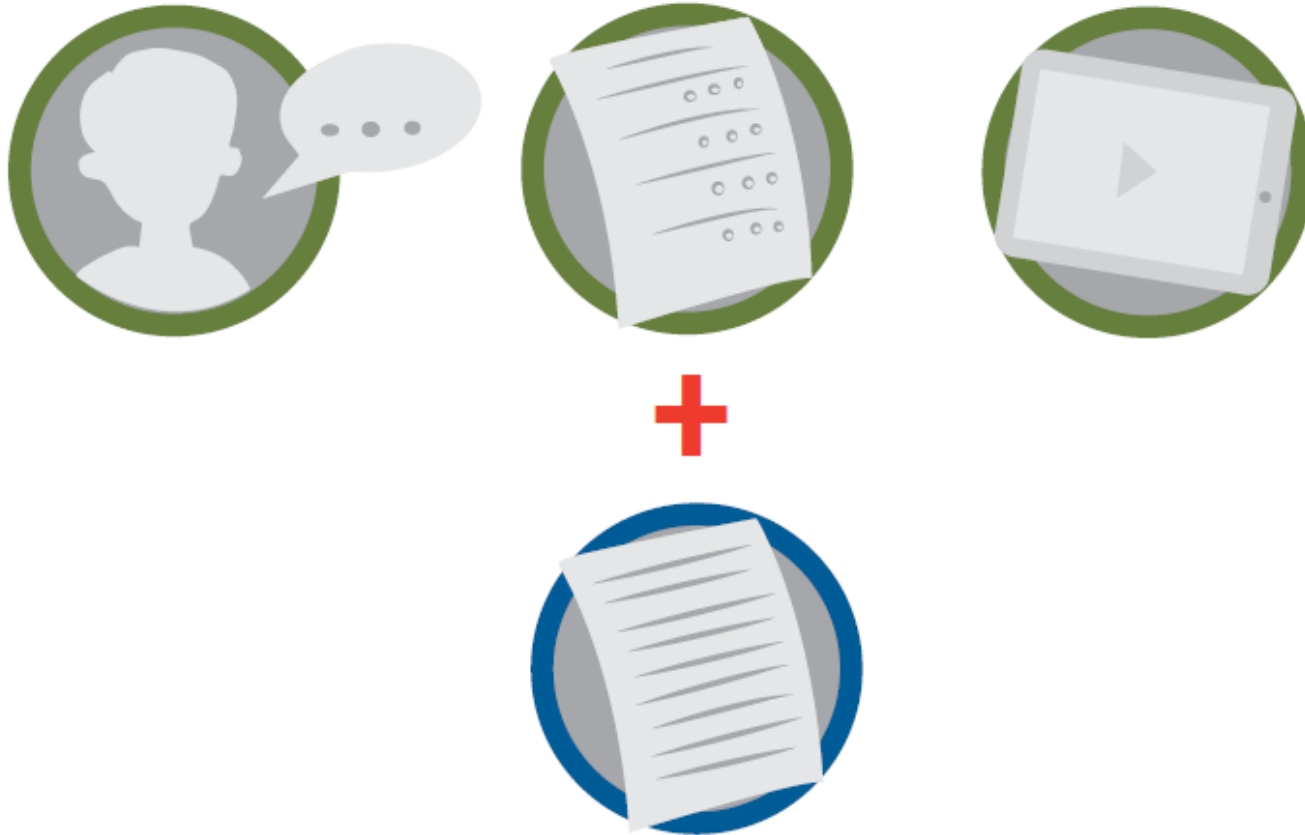
Topic 3: Chemical reactions — reactants, products and energy change

In this topic, students will:

Subject matter	Guidance
<p>Exothermic and endothermic reactions</p> <ul style="list-style-type: none">• explain how endothermic and exothermic reactions relate to the law of conservation of energy and the breaking and reforming of bonds; understand that heat energy is released or absorbed by the system to or from the surrounds• understand that heat is a form of energy and that temperature is a measure of the average kinetic energy of the particles• apply the relationship between temperature and enthalpy changes to identify thermochemical reactions as exothermic or endothermic; deduce from enthalpy level diagrams and thermochemical equations the relative stabilities of reactants and products, and the sign of the enthalpy change (ΔH) for a reaction• explain, in terms of average bond enthalpies, why reactions are exothermic or endothermic• construct and use appropriate representations (including chemical symbols and formulas, and chemical and thermochemical equations) to communicate conceptual understanding, solve problems and make predictions• calculate the heat change for a substance given the mass, specific heat capacity and temperature change• use data to calculate the enthalpy change (ΔH) for a reaction.• Mandatory practical: Conduct a calorimetry experiment to measure the enthalpy of a reaction.	<ul style="list-style-type: none">• Notional time: 6 hours• Average bond enthalpy values are given in the <i>Chemistry data booklet</i>.• Students should be aware of the limitations of using average bond enthalpies to calculate enthalpy change.• Consider reactions in aqueous solutions and combustion reactions.• Formulas: $\Delta H = H_{(\text{products})} - H_{(\text{reactants})}$ ΔH = energy required to break bonds – energy released when bonds are formed.• Formula: $q = mc\Delta T$• Suggested practicals:<ul style="list-style-type: none">– Apply Hess's Law. Data loggers could be used here.– Measure the molar heat of a chemical reaction.• Syllabus link: Unit 2 Topic 3: Rates of chemical reactions.• The enthalpy change (ΔH) for chemical reactions is indicated in kJ mol^{-1}.• Specific heat capacity of water is given in the <i>Chemistry data booklet</i>. Assume aqueous solutions other than water have the same specific heat capacity as water.

explain: make an idea or situation plain or clear by describing it in more detail or revealing relevant facts ...

Assessment



Data test (IA1)

Items that use quantitative and/or qualitative data derived from the mandatory or suggested practicals, activities or case studies from unit being studied.

Time: 60 minutes plus 10 minutes perusal.

Specifications

Description

The data test contains two to four datasets and consists of a number of different types of items, which include:

- short responses requiring single-word, sentence or short paragraph responses
- calculating using algorithms
- interpreting datasets.

Student experiment (IA2)

Students modify (i.e. refine, extend or redirect) an experiment in order to address their own related hypothesis or question.

Mode:

- written, 1500–2000 words
or
- multimodal presentation, 9–11 minutes

Time: 10 hours class time

Research investigation (IA3)

Students gather secondary evidence related to a research question in order to evaluate a claim.

Mode:

- written, 1500–2000 words
or
- multimodal presentation, 9–11 minutes.

Time: 10 hours class time

[See Participant booklet](#)

External examination

Items include multiple-choice, single-word, sentence or short paragraph responses.

Two papers

- 90 minutes plus 10 minutes perusal per paper
- Paper 1: short response (including multiple-choice)
- Paper 2: combination response (short/extended)

[See Participant booklet](#)

Other sources of information

Syllabuses and resources

<https://www.qcaa.qld.edu.au/senior/senior-subjects/sciences>

Explaining the new system

www.qcaa.qld.edu.au/senior/new-snr-assessment-te/resources

Mandatory and suggested practicals (handout)

Science team

Quality Assurance	Review and Transition
Chipo Gweshe: 3120 6137 <i>Earth Science</i>	Denise Crook: 3864 0267 <i>Chemistry</i>
Gary Emerson: 3864 0226 <i>Agricultural Science, Agricultural Practices, Earth Science, Physics, Science in Practice</i>	Dylan Roche: 3120 6117 <i>Physics</i>
Troy Lethlean: 3864 0494 <i>Aquatic Practices, Chemistry, Marine Science, Biology</i>	Kellie Daly: 3120 6171 <i>Psychology</i>
	Ross Wilson: 3120 6148 <i>Agricultural Science, Earth and Environmental Science</i>
	Tamra Brown: 3120 6151 <i>Biology, Marine Science</i>

David Madden: *Learning Area Manager*
Science@qcaa.qld.edu.au

Licence



The material in this PowerPoint owned by the QCAA is licensed under the [Creative Commons Attribution 4.0 Licence](https://creativecommons.org/licenses/by/4.0/).

License URL: [Creative Commons Attribution 4.0 Licence](https://creativecommons.org/licenses/by/4.0/)

Please attribute: © State of Queensland (Queensland Curriculum and Assessment Authority) 2019.

Third-party material is reproduced pursuant to section 183 of the *Copyright Act 1968*.

For questions regarding the copyright in this presentation, please contact copyright@qcaa.qld.edu.au