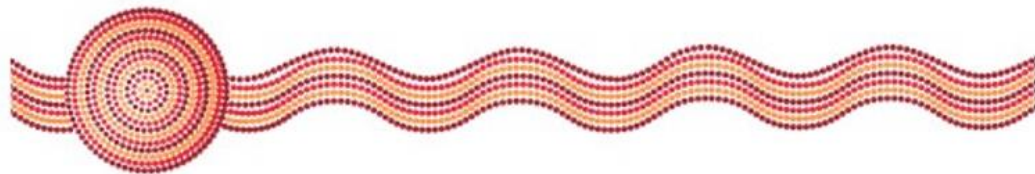


VCE Algorithmics (HESS) School-assessed Task

Video 5 Authentication

Acknowledgement of Country

The VCAA respectfully acknowledges the Traditional Owners of Country throughout Victoria and pays respect to the ongoing living cultures of First Peoples.



VCE Algorithmics (HESS) School-assessed Task

Video 5 Authentication

Phil Feain

Digital Technologies Curriculum Manager

VCAA

Outline of presentation

- Authentication
- Authentication record forms
- Using the Authentication record forms

Authentication of the SAT

Authentication

Teachers are reminded of the need to comply with the authentication requirements specified in the Assessment: School-based Assessment section of the [VCE and VCAL Administrative Handbook](#). This is important to ensure that ‘undue assistance [is] not ... provided to students while undertaking assessment tasks’.

Teachers must be aware of the following requirements for the authentication of VCE Algorithmics (HESS) School-assessed Task.

Authentication

1. The body of work created for the School-assessed Task (SAT) is based on work developed and completed in Unit 3 Outcome 3 and Unit 4 Outcomes 1 and 2.
2. Teachers are required to fill out the Authentication record forms and provide the student with feedback on their progress at each observation.
3. Undue assistance should not occur at any time during the development of the body of work and teachers need to be vigilant. Students are required to demonstrate development of their thinking and working practices. Teachers are reminded that it is not appropriate to provide ‘detailed advice on, corrections to, or actual reworking of students’ work’.

Authentication

4. Teachers must sight and monitor the development and documentation of the student's thinking and working practices throughout the unit to authenticate the work as the student's own. Students must acknowledge the source of materials and information used to support the development of their work.
5. Students should be encouraged to complete their work at school. Where students use external service providers, their documentation should demonstrate ongoing progress throughout the SAT.

Authentication

6. During development of the data model and solutions teachers must plan and use observations of student work in order to monitor and record each student's progress as part of the authentication process. Teachers must ensure that all source and reference material, all use of non-school (home, outsourced) resources and any external assistance (for example, tutors) are acknowledged on the Authentication record form. If a student acknowledges using external resources or receiving external assistance, the teacher should record complete details as an attachment to the Authentication record form.
7. Teachers are reminded that authentication procedures must be followed for all student work in relation to this SAT. The School-based Assessment Audit includes the inspection of Authentication record forms.

Unit 3 Authentication record form

Authentication record form: VCE Algorithmics (HESS) 2023

Unit 3 School-assessed Task

This form must be completed by the class teacher. It provides a record of the monitoring of the student's work in progress for authentication purposes. This form is to be retained by the school and filed. It may be collected by the VC/AA as part of the School-based Assessment Audit.

Student name Student No

--	--	--	--	--	--	--	--	--	--

School Teacher:

Component of School-assessed Task	Date observed and submitted	Teacher comments	Teacher's initials	Student's initials
Observation 1: Specifying and modelling the problem (Criterion 1) Unit 3 Outcome 3 SAT – Part 1 The student specifies the problem and models it using ADTs.	Observed	Observation of the problem specification and modelling process.		
Observation 2: Designing an algorithmic solution (Criterion 2) Unit 3 Outcome 3 SAT – Part 1 The student considers a range of approaches and designs an algorithmic solution to the problem.	Observed	Observation of the design of an algorithmic solution.		
Observation 3: Communicating the algorithmic solution (Criterion 3) Unit 3 Outcome 3 SAT – Part 1 The student communicates their solution in pseudocode.	Observed	Observation of pseudocode.		
Observation 4: Solution justification (Criterion 4) Unit 3 Outcome 3 SAT – Part 1 The student justifies the suitability of their solution.	Observed	Observation of the justification of the solution.		
Submission of Unit 3 Outcome 3 School-assessed Task The student submits the Unit 3 Outcome 3 SAT – Part 1 for assessment.	Submitted	Submission of Unit 3 Outcome 3 SAT – Part 1.		

I declare that all resource materials and assistance used have been acknowledged and that all unacknowledged work is my own.

Student signature Date

Unit 4 Authentication record form

Authentication record form: VCE Algorithmics (HESS) 2023

Unit 4 School-assessed Task

This form must be completed by the class teacher. It provides a record of the monitoring of the student's work in progress for authentication purposes. This form is to be retained by the school and filed. It may be collected by the VCAA as part of the School-based Assessment Audit.

Student name Student No

--	--	--	--	--	--	--	--	--	--

School Teacher:

Component of School-assessed Task	Date observed and submitted	Teacher comments	Teacher's initials	Student's initials
Observation 5: Determining time complexity (Criterion 5) Unit 4 Outcome 1 SAT – Part 2 The student determines the time complexity of their Unit 3 Outcome 3 solution.	Observed	Observation of analysis of time complexity of their initial solution		
Observation 6: Time complexity implications (Criterion 6) Unit 4 Outcome 1 SAT – Part 2 The student explains the consequences of the time complexity of their Unit 3 Outcome 3 solution.	Observed	Explanation of consequences of the time complexity of their initial solution.		
Observation 7: Design of an improved algorithmic solution (Criterion 8) Unit 4 Outcome 2 SAT – Part 3 The student designs an improved algorithmic solution.	Observed	Observation of the documented design process and solution.		
Observation 8: Algorithmic problem-solving (Criterion 9) Unit 4 Outcome 2 SAT – Part 3 The quality of the student's improved solution.	Observed	Observation of the quality of the improved design.		
Observation 9: Further formal analysis (Criterion 5) Unit 4 Outcome 1 SAT – Part 2 The student analyses the time complexity of their improved algorithmic solution.	Observed	Observation of analysis of the time complexity of an improved solution.		
Observation 10: Comparison of solutions (Criteria 7 & 10) Unit 4 Outcomes 1 and 2 SAT – Parts 2 and 3 The student compares the suitability of their solutions.	Observed	Observation of comparison the initial and improved solutions.		
Submission of Unit 4 Outcomes 1 and 2 School-assessed Task The student submits the Unit 4 Outcomes 1 and 2 SAT – Parts 2 and 3 for assessment.	Submitted	Submission of Unit 4 Outcomes 1 and 2 SAT – Parts 2 and 3.		

I declare that all resource materials and assistance used have been acknowledged and that all unacknowledged work is my own.

Student signature Date

Using the Authentication record forms

- Regularly observe student work during the life of the SAT
 - some teachers use one class a week to do this formally
 - use the VCAA Authentication record form and update with comments from observations as you go – **these can be requested** as part of the audit process
 - both you and the student are to sign and date your initials for each observation at the time of the observation
- Have an idea of how many marks a student has achieved for each criterion when making an observation – keep a record of this for yourself only – you should have an idea of a score for students if work is lost or not submitted on time.
- Ensure a student's work is their own – they are to sign and date the declaration at the bottom of each Authentication record form.

Review of presentation

In this video we looked at:

- Authentication
- Authentication record forms
- Using the Authentication record forms

Contact

- **Phil Feain – Digital Technologies Curriculum Manager (VCAA)**
- **Ph: (03) 9059 5146**
- **Philip.Feain@education.vic.gov.au**

Authorised and published by the
Victorian Curriculum and Assessment Authority

