
Arizona 10 Computer Science

FREE PREVIEW

Full-Year Teacher Planner, Blank Editable Planner & School-Submission Binder

This preview shows the real structure and a genuine sample of the completed planner. The full product contains 9 units, 36 weekly plans and 180 daily plans, plus blank editable versions of every form.

State	Arizona
Grade	10 (High)
Subject	Computer Science
Course category	Technology
Standards family	Science
Framework	Arizona Computer Science Standards
Issuing agency	Arizona Department of Education
Scope	36 instructional weeks · 180 instructional days · 9 units

This is a statewide standards index, not a local course catalog. Course names, grade placement, electives, and graduation sequences vary by district.

What you get

Folder	Contents
01 START HERE	Read-me, contents, printing and digital instructions, standards verification guide, this preview
02 FILLED FULL YEAR	Completed planner in colour and ink-friendly PDF, plus editable DOCX
03 BLANK EDITABLE	Blank planner in colour, ink-friendly and fillable PDF, plus editable DOCX
04 ASSESSMENTS AND DATA	Baseline observation, quarterly rubrics, anecdotal forms, portfolio checklist
05 SCHOOL SUBMISSION	Submission covers, alignment summary, evidence checklist, observation, reflection, signature page
06 LICENSE AND CREDITS	Terms of use, credits and licences, copyright notice

The pages that follow are reproduced **exactly** as they appear in the full completed planner.

Week 9 — Designing an Artefact

Unit 3: Building Something · Month 3 · Quarter 1 · Semester 1 · Instructional Days 41–45

Essential question	What are you actually building, and who for?
Standards	Programming and Development (1) → HS.IC.C.2 Arizona Computer Science Standards / IC — Test and refine computational artifacts to reduce bias and equity deficits. Biases could include incorrect assumptions developers have made about their user base or data. Students should begin to identify potential bias during the design process to maximize accessibility in product design and become aware of professionally accepted accessibility standards to evaluate computational artifacts for accessibility. Practice(s): Fostering an Inclusive Computing Culture: 1.2
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Local dates	_____ (enter your school dates)

Measurable objectives

- Students will design and iteratively develop computational artifacts for practical intent, personal expression, or to address a societal issue by using current events.

Success criteria (student-friendly)

- "I state the artefact's purpose and audience."
- "I design before building."
- "I develop iteratively rather than in one pass."

Academic vocabulary

computational artifact, purpose, audience, iteration, increment, specification, scope

Materials and technology

- Paper
- Machines if available
- Unplugged design route

Differentiation and supports

Support area	This week's plan
Special education / IEP	Reduce group size; pair visual cue cards with all verbal directions; allow gesture or picture response in place of speech; pre-teach the week's target in a 1:1 warm-up.
Section 504	Provide the child's documented accommodations throughout; permit movement breaks and alternative seating at any point in the sequence.
Multilingual learners	Introduce each vocabulary word with an object or image; accept home-language responses; send the vocabulary list home where a translation is available; pair with a peer who shares the home language.
Advanced / extension	Ask the learner to teach the skill to a peer, extend the task, or record a demonstration for the class reference wall.

Support area	This week's plan
Intervention / reteach	Reteach the target in a short small group using the same materials; split the day's check for understanding into two smaller steps.
Enrichment	Extend into an open-ended centre or project connected to the essential question.

Assessment and evidence

An artefact designed with a stated purpose and a first increment built.

Family communication

Ask your child what they are building and who it is for.

Day 41 — The Three Purposes the Standard Names

Week 9, Day 1 · Unit 3 · Standards: HS.IC.C.2

Focus	Choosing.
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Vocabulary in use	computational artifact, purpose, audience, iteration, increment, specification, scope
Local date	_____

Learning sequence

TEACHER NOTE: the standard names PRACTICAL INTENT, PERSONAL EXPRESSION, or ADDRESSING A SOCIETAL ISSUE USING CURRENT EVENTS. All three are equal routes and students choose. WHERE A STUDENT CHOOSES THE SOCIETAL ROUTE, the topic is theirs and NO STUDENT IS REQUIRED TO WORK ON ANYTHING PERSONAL, DISTRESSING OR POLITICAL; a practical or expressive artefact meets the standard identically, and that alternative is announced to the whole class. Connect: algorithms. Teach: the three purposes and what each implies. Try: shared discussion. Apply: students choose a purpose. Reflect: the purpose decides everything downstream.

Check for understanding

Student chooses and states an artefact's purpose.

Differentiation in the moment

If the learner...	Then...
needs more support	Model the step again with guided support, then fade to a gesture cue.
is ready for more	Invite the learner to demonstrate for a peer or add a second example.
is dysregulated	Pause instruction, move to co-regulation, and return to the target later.

Closure and reflection

Gather the group. Restate the learning target. Ask one learner to demonstrate. Name one specific thing the group did well, then preview tomorrow.

Teacher reflection (fictional example)

Fictional Example — Customize and Verify Before School Submission.

Most learners met the target. Two needed the visual cue repeated during guided practice; I will pre-teach with them tomorrow. The extension held attention longer than planned, so I shortened closure.

Day 42 — Who Is It For

Week 9, Day 2 · Unit 3 · Standards: HS.IC.C.2

Focus	Audience.
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Vocabulary in use	computational artifact, purpose, audience, iteration, increment, specification, scope
Local date	_____

Learning sequence

Connect: purpose. Teach: naming the user, and that 'anyone' produces something for nobody - which is the same lesson every design subject teaches. Try: shared naming. Apply: students name their user and what that user needs. Reflect: one named user beats an imagined crowd.

Check for understanding

Student names a user and their needs.

Differentiation in the moment

If the learner...	Then...
needs more support	Model the step again with guided support, then fade to a gesture cue.
is ready for more	Invite the learner to demonstrate for a peer or add a second example.
is dysregulated	Pause instruction, move to co-regulation, and return to the target later.

Closure and reflection

Gather the group. Restate the learning target. Ask one learner to demonstrate. Name one specific thing the group did well, then preview tomorrow.

Teacher reflection (fictional example)

Fictional Example — Customize and Verify Before School Submission.

Most learners met the target. Two needed the visual cue repeated during guided practice; I will pre-teach with them tomorrow. The extension held attention longer than planned, so I shortened closure.

Day 43 — Designing Before Building

Week 9, Day 3 · Unit 3 · Standards: HS.IC.C.2

Focus	The standard's first verb.
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Vocabulary in use	computational artifact, purpose, audience, iteration, increment, specification, scope
Local date	_____

Learning sequence

Connect: audience. Teach: designing on paper first - what it does, its parts from Unit 1's decomposition, the algorithms from Unit 2, and what it will NOT do - and that scoping out is the decision that makes a project finishable. Try: shared design. Apply: students design their artefact on paper. UNPLUGGED ROUTE: the design is a full deliverable in its own right. Reflect: what you cut is what lets you finish.

Check for understanding

Student produces a paper design for an artefact.

Differentiation in the moment

If the learner...	Then...
needs more support	Model the step again with guided support, then fade to a gesture cue.
is ready for more	Invite the learner to demonstrate for a peer or add a second example.
is dysregulated	Pause instruction, move to co-regulation, and return to the target later.

Closure and reflection

Gather the group. Restate the learning target. Ask one learner to demonstrate. Name one specific thing the group did well, then preview tomorrow.

Teacher reflection (fictional example)

Fictional Example — Customize and Verify Before School Submission.

Most learners met the target. Two needed the visual cue repeated during guided practice; I will pre-teach with them tomorrow. The extension held attention longer than planned, so I shortened closure.

Day 44 — The Smallest Thing That Works

Week 9, Day 4 · Unit 3 · Standards: HS.IC.C.2

Focus	Iteration.
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Vocabulary in use	computational artifact, purpose, audience, iteration, increment, specification, scope
Local date	_____

Learning sequence

Connect: design. Teach: ITERATIVELY DEVELOP as the standard words it - build the smallest version that does something real, get it working, then extend - rather than building all the parts and joining them at the end. Try: shared identification of a minimal first version. Apply: students define and begin their first increment. Reflect: something small that runs beats something large that does not.

Check for understanding

Student defines and begins a minimal first increment.

Differentiation in the moment

If the learner...	Then...
needs more support	Model the step again with guided support, then fade to a gesture cue.
is ready for more	Invite the learner to demonstrate for a peer or add a second example.
is dysregulated	Pause instruction, move to co-regulation, and return to the target later.

Closure and reflection

Gather the group. Restate the learning target. Ask one learner to demonstrate. Name one specific thing the group did well, then preview tomorrow.

Teacher reflection (fictional example)

Fictional Example — Customize and Verify Before School Submission.

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Day 45 — Building the First Increment

Week 9, Day 5 · Unit 3 · Standards: HS.IC.C.2

Focus	Execution.
Learning target	"I can design and iteratively develop an artefact with a stated purpose."
Vocabulary in use	computational artifact, purpose, audience, iteration, increment, specification, scope
Local date	_____

Learning sequence

Connect: the increment. Teach: building it, with the paper design beside the work. Try: shared session. Apply: students complete a working first increment. WHERE THERE ARE NO MACHINES, the increment is a fully specified traced design. Reflect: you have something that works, in week nine.

Check for understanding

Student completes a working first increment.

Differentiation in the moment

If the learner...	Then...
needs more support	Model the step again with guided support, then fade to a gesture cue.
is ready for more	Invite the learner to demonstrate for a peer or add a second example.
is dysregulated	Pause instruction, move to co-regulation, and return to the target later.

Closure and reflection

Gather the group. Restate the learning target. Ask one learner to demonstrate. Name one specific thing the group did well, then preview tomorrow.

Teacher reflection (fictional example)

Fictional Example — Customize and Verify Before School Submission.

Most learners met the target. Two needed the visual cue repeated during guided practice; I will pre-teach with them tomorrow. The extension held attention longer than planned, so I shortened closure.

Important before you buy

- This is a **digital download**. Nothing is shipped.
- The planner is **calendar-neutral**: Month 1–9, Week 1–36, Day 1–180, so it fits any school calendar. You add your own dates.
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