Oide

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Supporting the Professiona Learning of School Leaders and Teachers

LCCS NW2 Session 6

ALT4: Design and Create

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By the end of this session…

Participants will be enabled to…

- enhance their understanding of the Design stage through considering representations and design tools, e.g. Flowcharts

- enhance their understanding of the Create stage of the Design Process

The Design Process

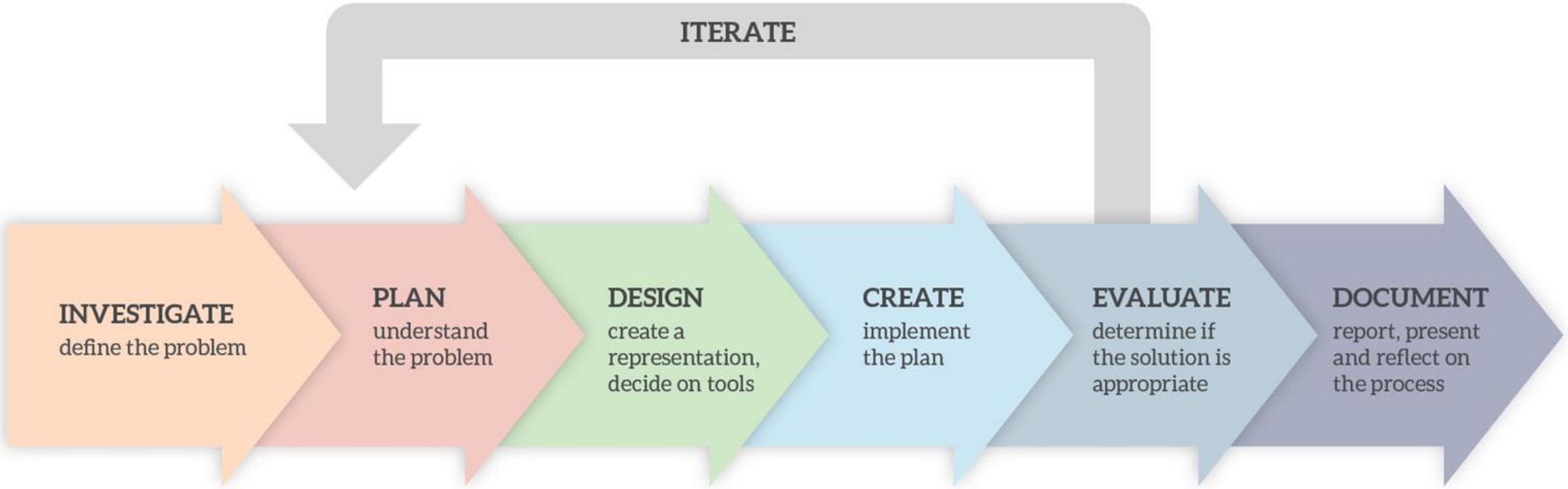
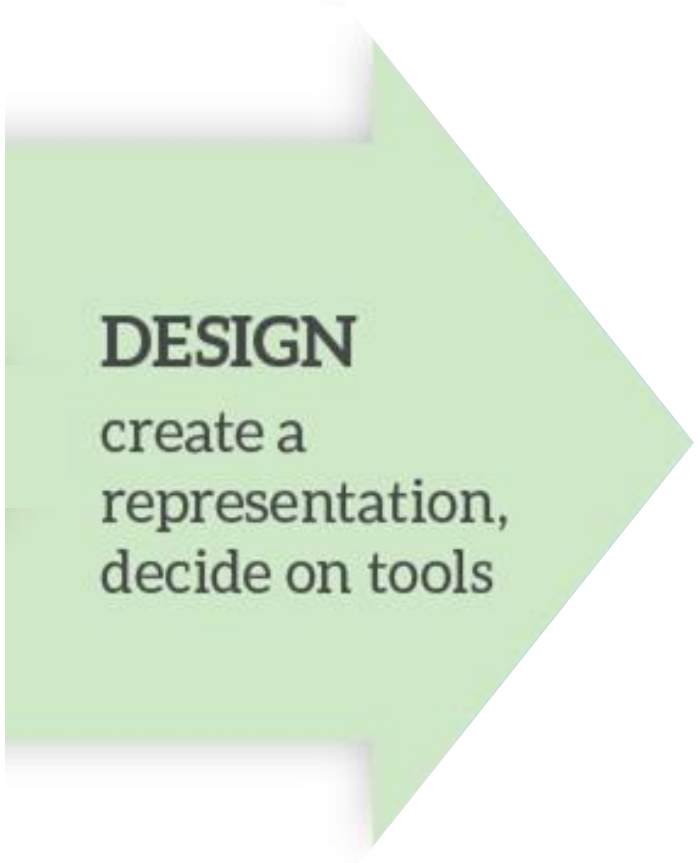


Figure 3: Overview of a design process

The Design Process



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Design

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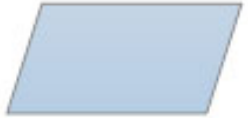
Flow charts

Symbol	Name	Function
	Start/end	An oval represents a start or end point
	Arrows	A line is a connector that shows relationships between the representative shapes
	Input/Output	A parallelogram represents input or output
	Process	A rectangle represents a process
	Decision	A diamond indicates a decision

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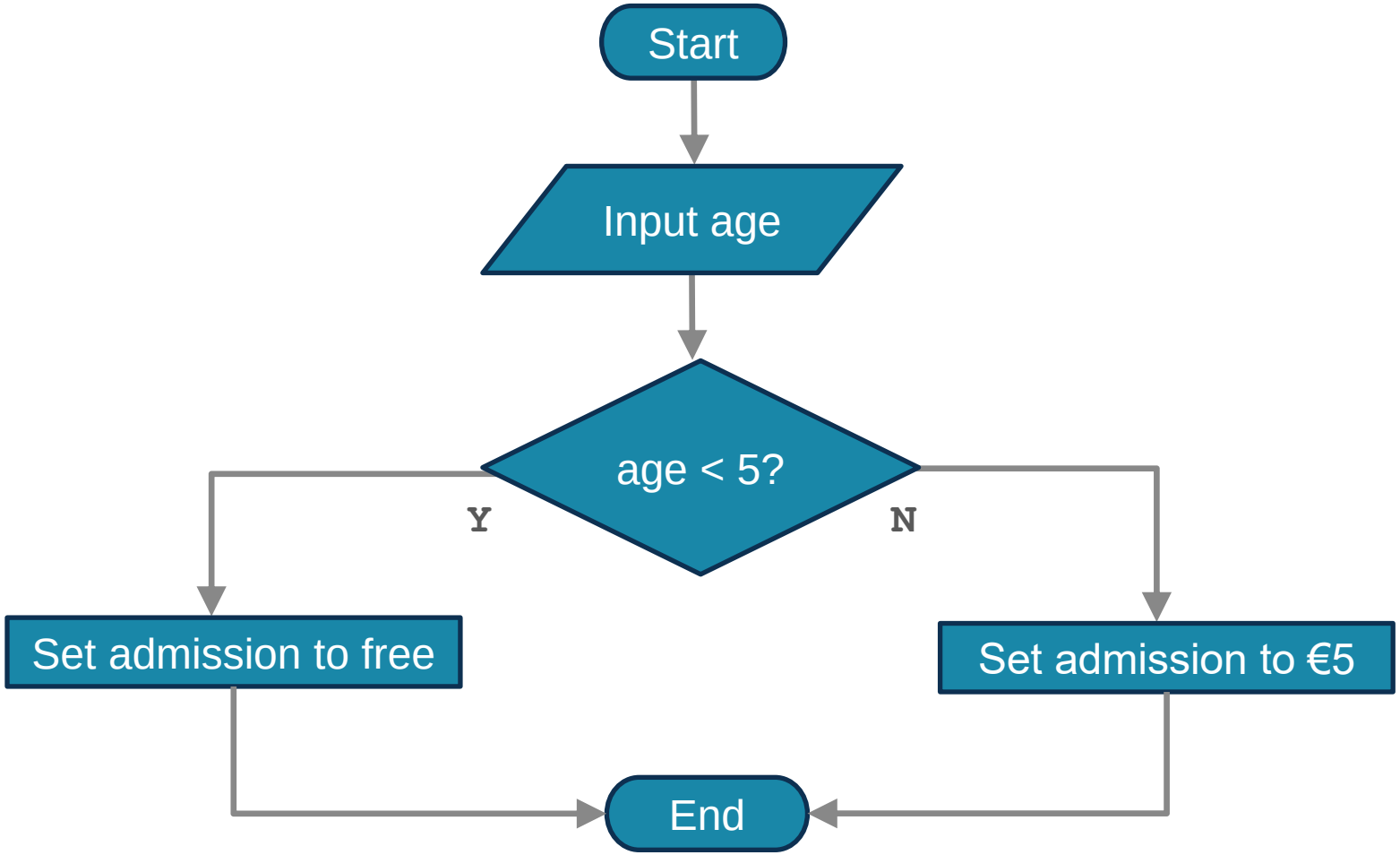
Admission example



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Pseudocode

```
program start

check weather forecast

if rain predicted
    Stay home
else
    Go golfing
end if

program end
```

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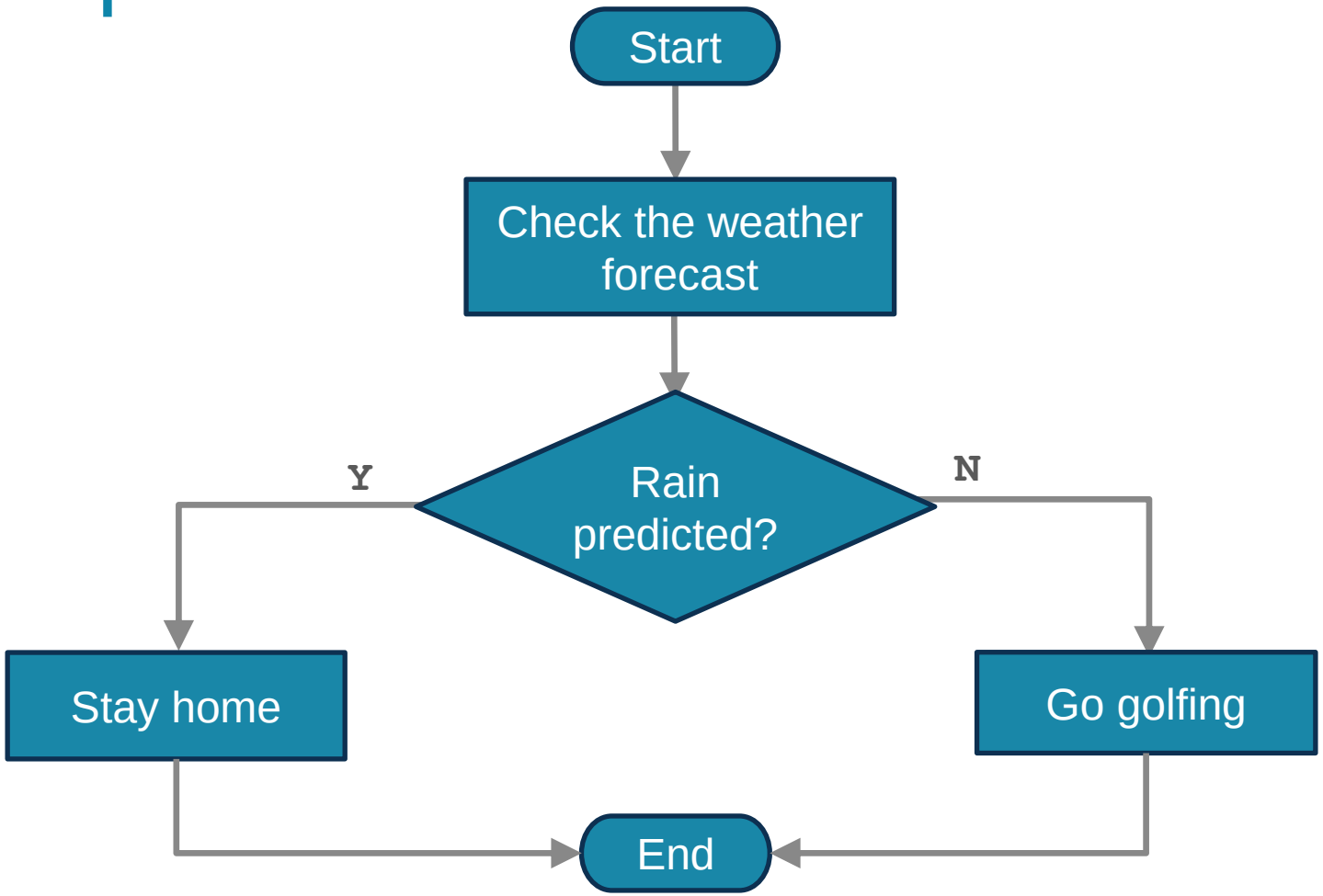
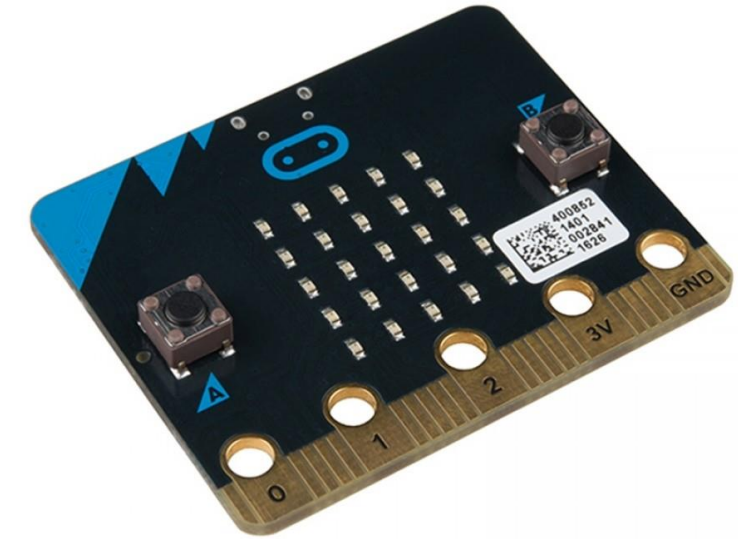
Golf example – a solution



Group activity



The Design Process

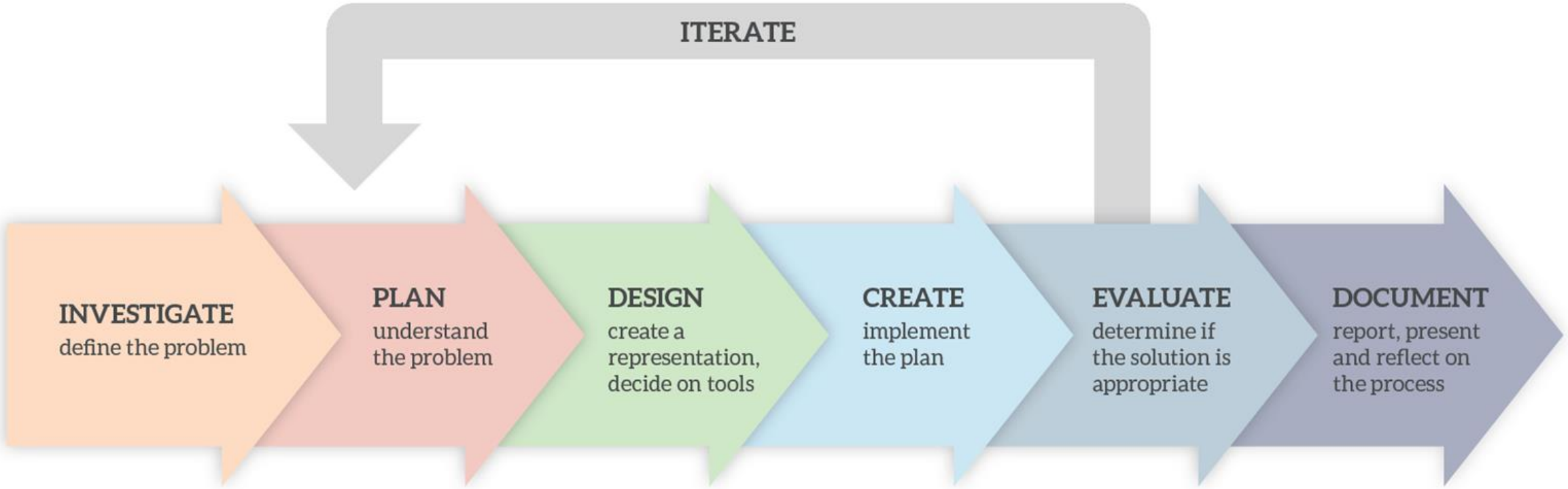
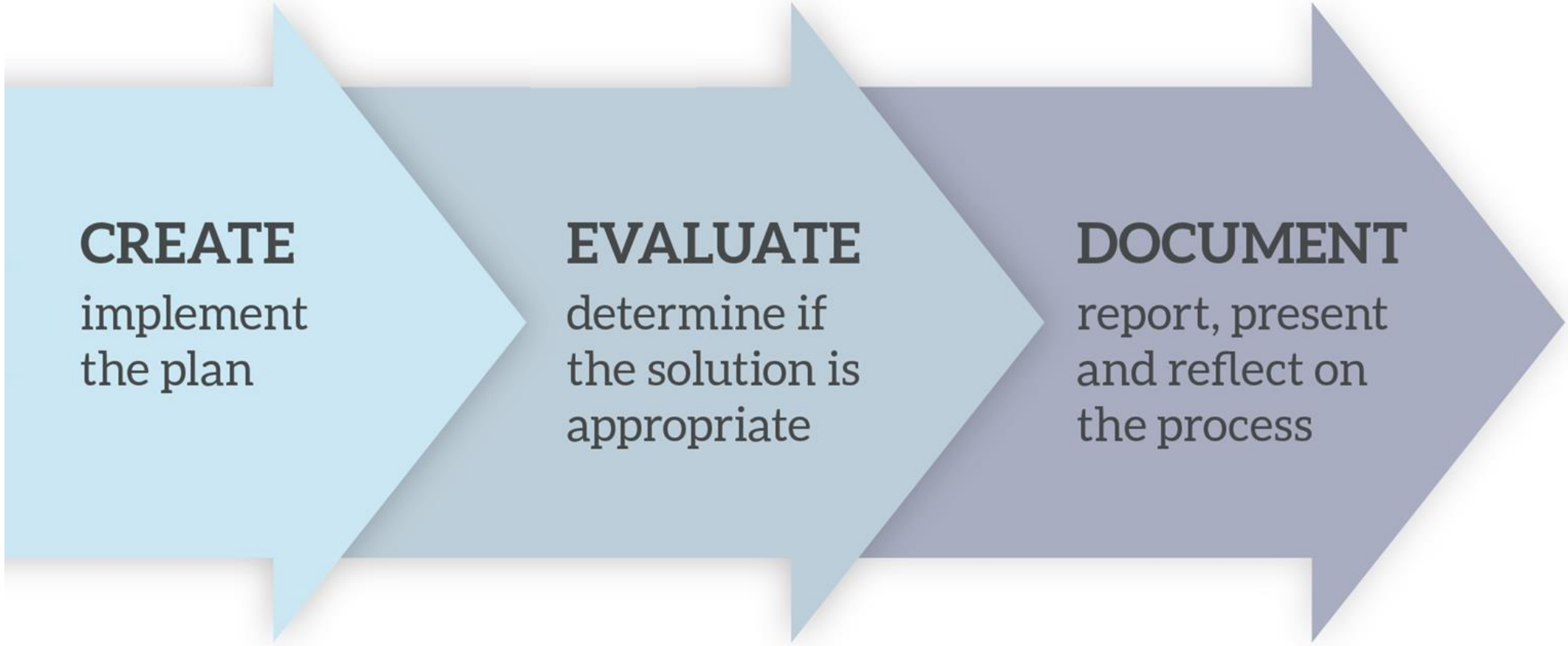


Figure 3: Overview of a design process

Create Evaluate Document



From the Specification

The output from each task is a computational artefact and a concise individual report outlining its development.

In the report, students outline where and how the core concepts were employed.

The structure of the reports should reflect the design process shown above in Figure 3.

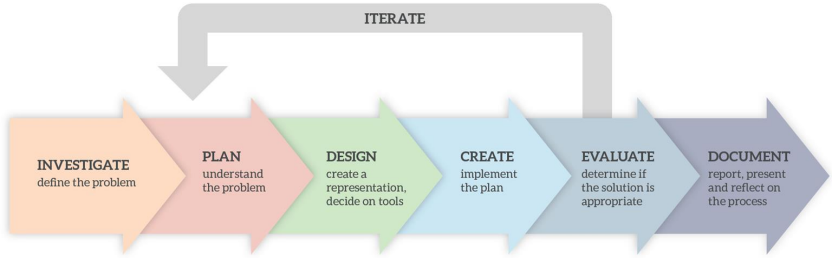
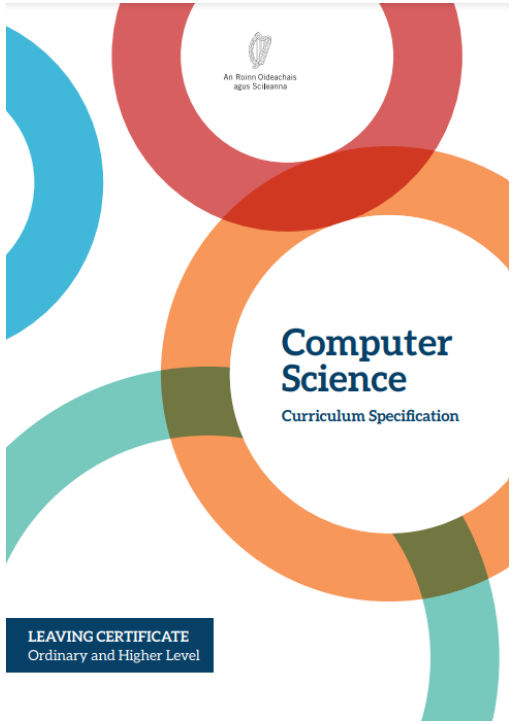


Figure 3: Overview of a design process

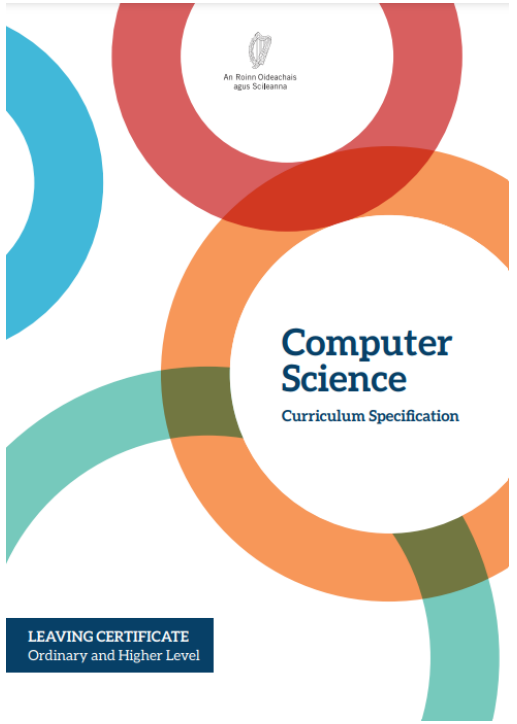


From the Specification

Initial reports could be in the form of structured presentations to the whole class.

As students progress, reports should become detailed and individual.

Reports are collected in a digital portfolio along with the computational artefact and must be verified as completed by both the teacher and the student.



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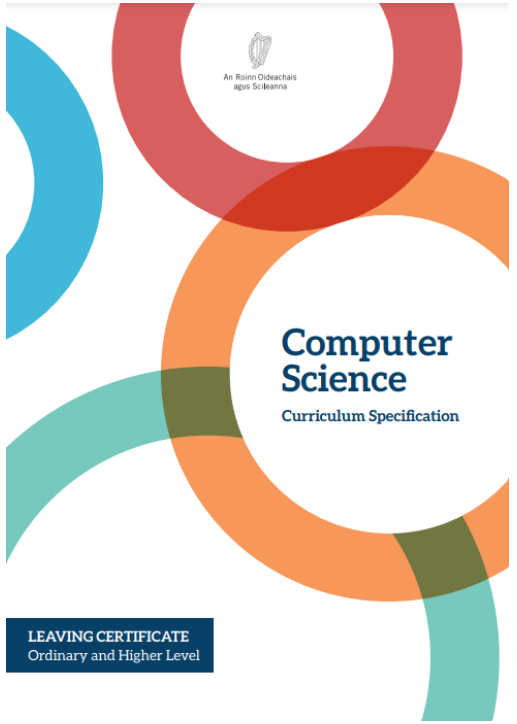
Create Evaluate Document From the Specification

Students are expected to document, reflect and present on each applied learning task



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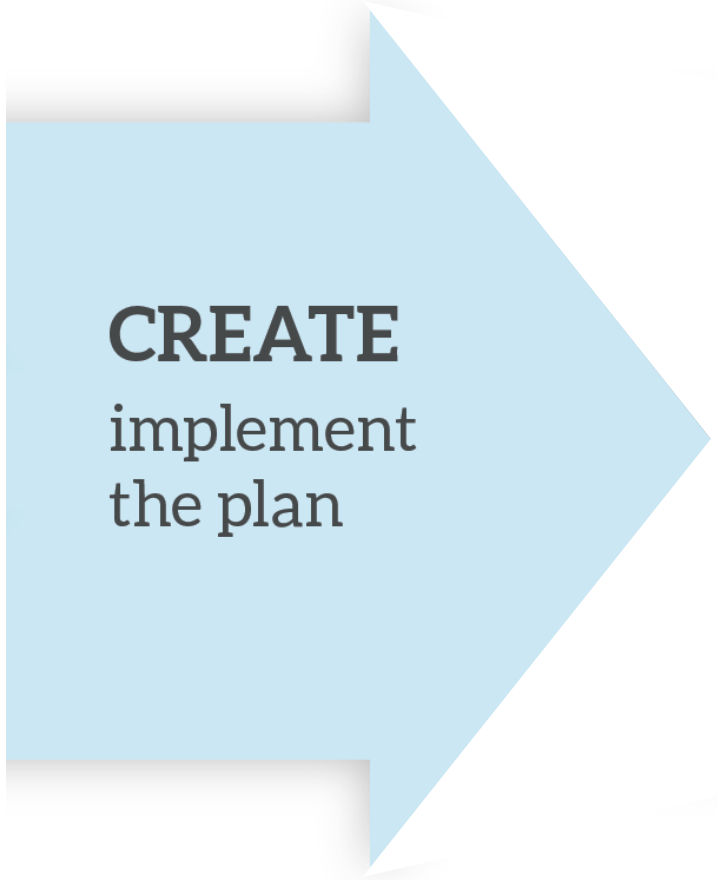
Create



It is not necessary that you finish your project – we are concerned today about understanding the process and the experience

Oide

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Department of Education

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