

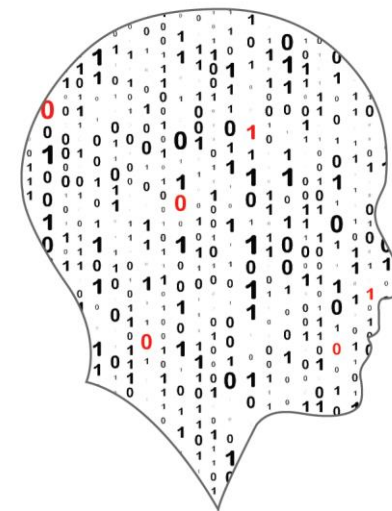


# Oide

Tacú leis an bhFoghlaim  
Ghairmiúil i measc Ceannairí  
Scoile agus Múinteoirí

Supporting the Professional  
Learning of School Leaders  
and Teachers

## Session 5: ALT2 Plan and Design



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COMPUTER SCIENCE





# Overview of the session

<b>Part 1</b>	ALT2 Plan
<b>Part 2</b>	Feedback
<b>Part 3</b>	ALT2 Design



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## ALT2: Plan

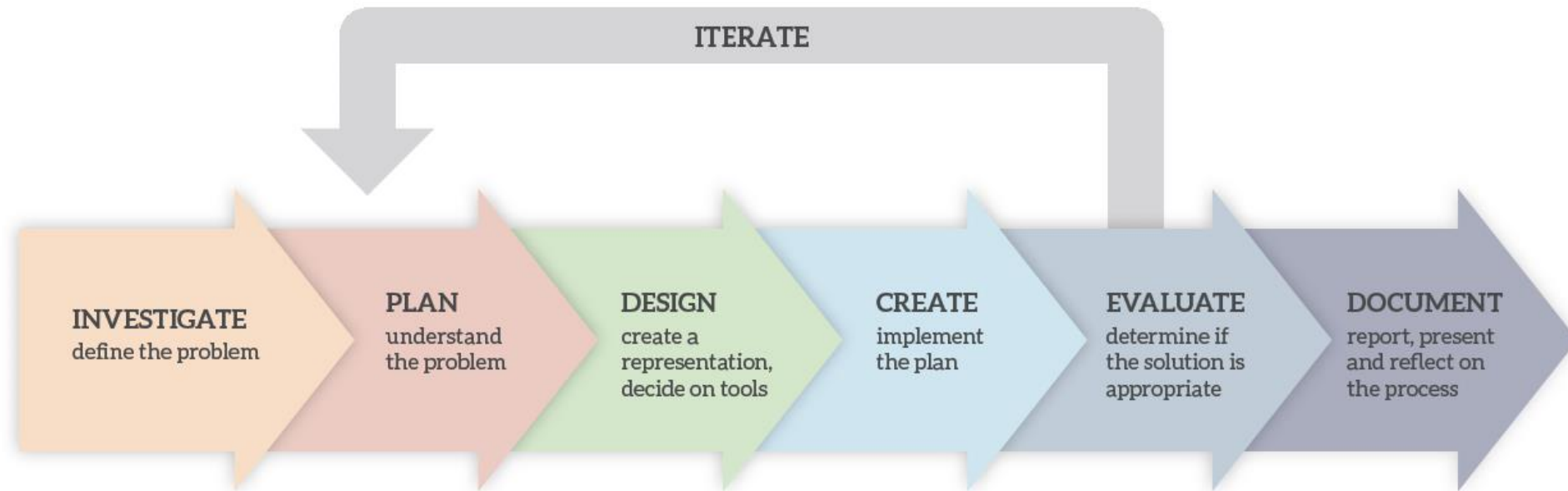


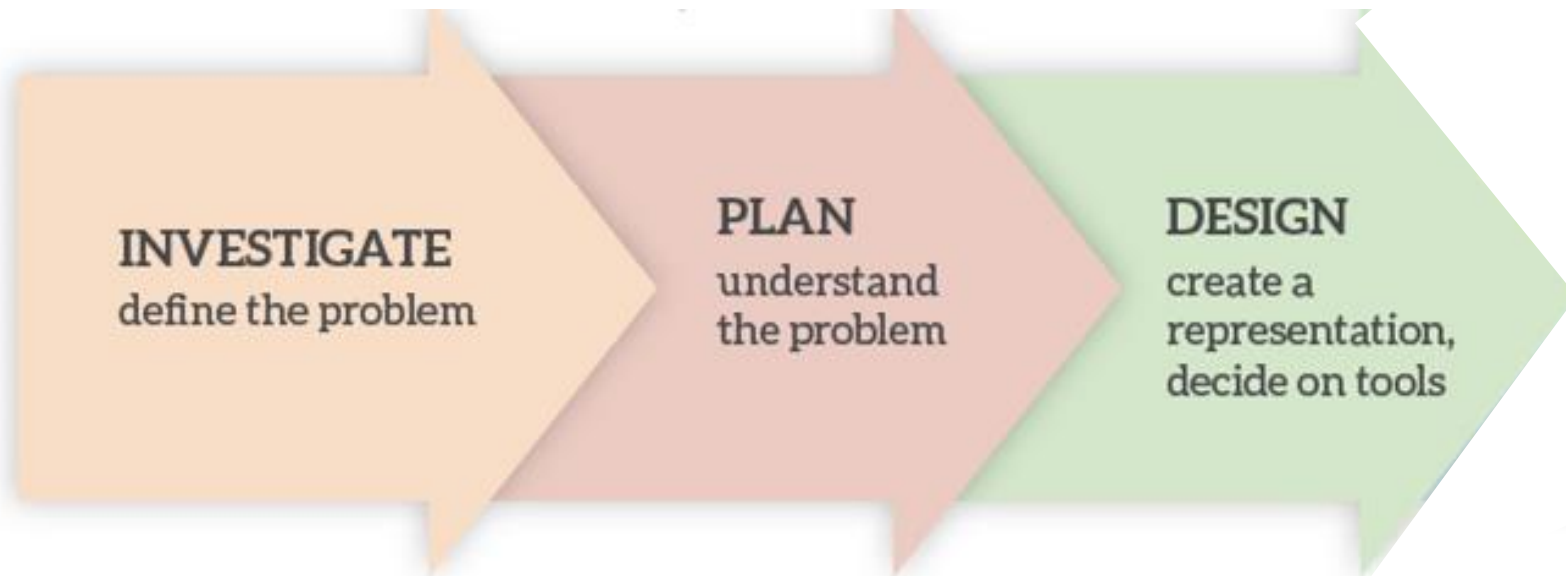
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# The Design Process







# Plan

**PLAN**  
understand  
the problem



# The interdisciplinary nature of data (LC)

Chemistry Mathematics  
Irish History PE English  
Politics and Society Economics  
German Biology Art T4  
Physics Geography  
Wellbeing Chemistry  
Ag Science



# Group Activity: ALT 2 - Plan

Choose one hypothesis and consider the following prompts:

*What does your project do/not do?*

*Aims? Any limitations?*

*Who are the end users?*

*What are the tools/materials required?*

*What are the roles and responsibilities?*

*Does your project cover all the LOs for this ALT?*

*Are there any ethical issues?*



20 minutes





# Feedback





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# ALT2: Design

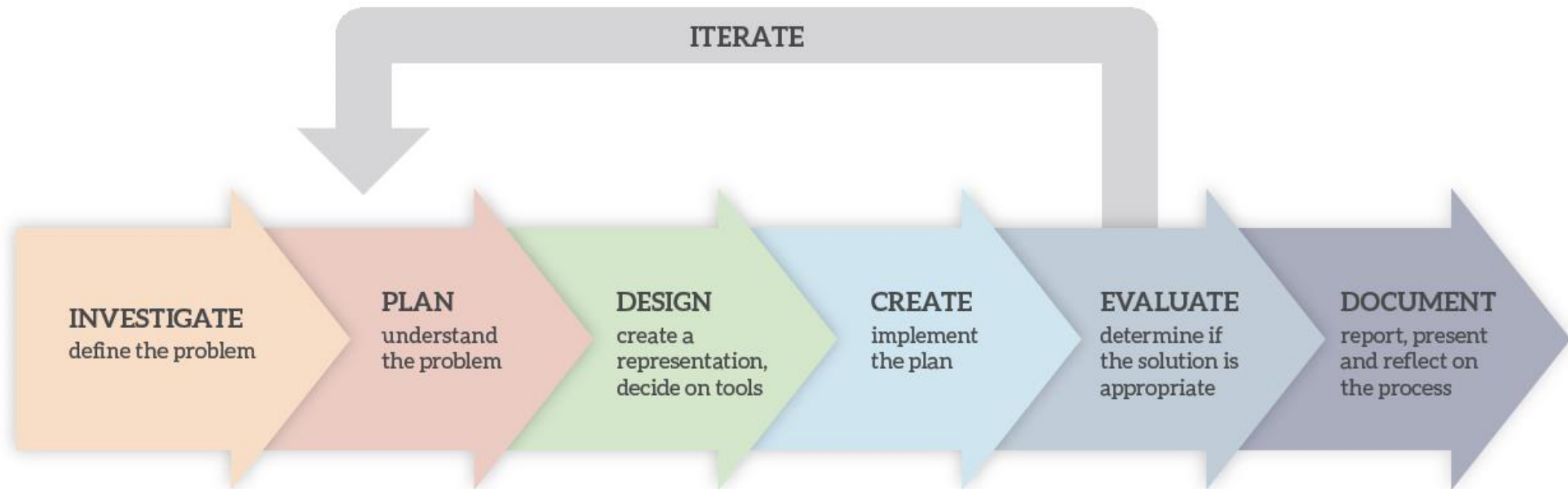


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# The Design Process





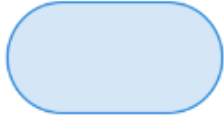

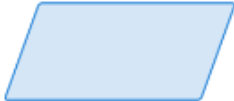
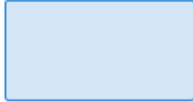
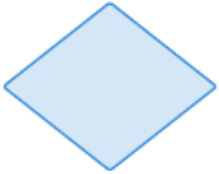
# Design

## DESIGN

create a  
representation,  
decide on tools

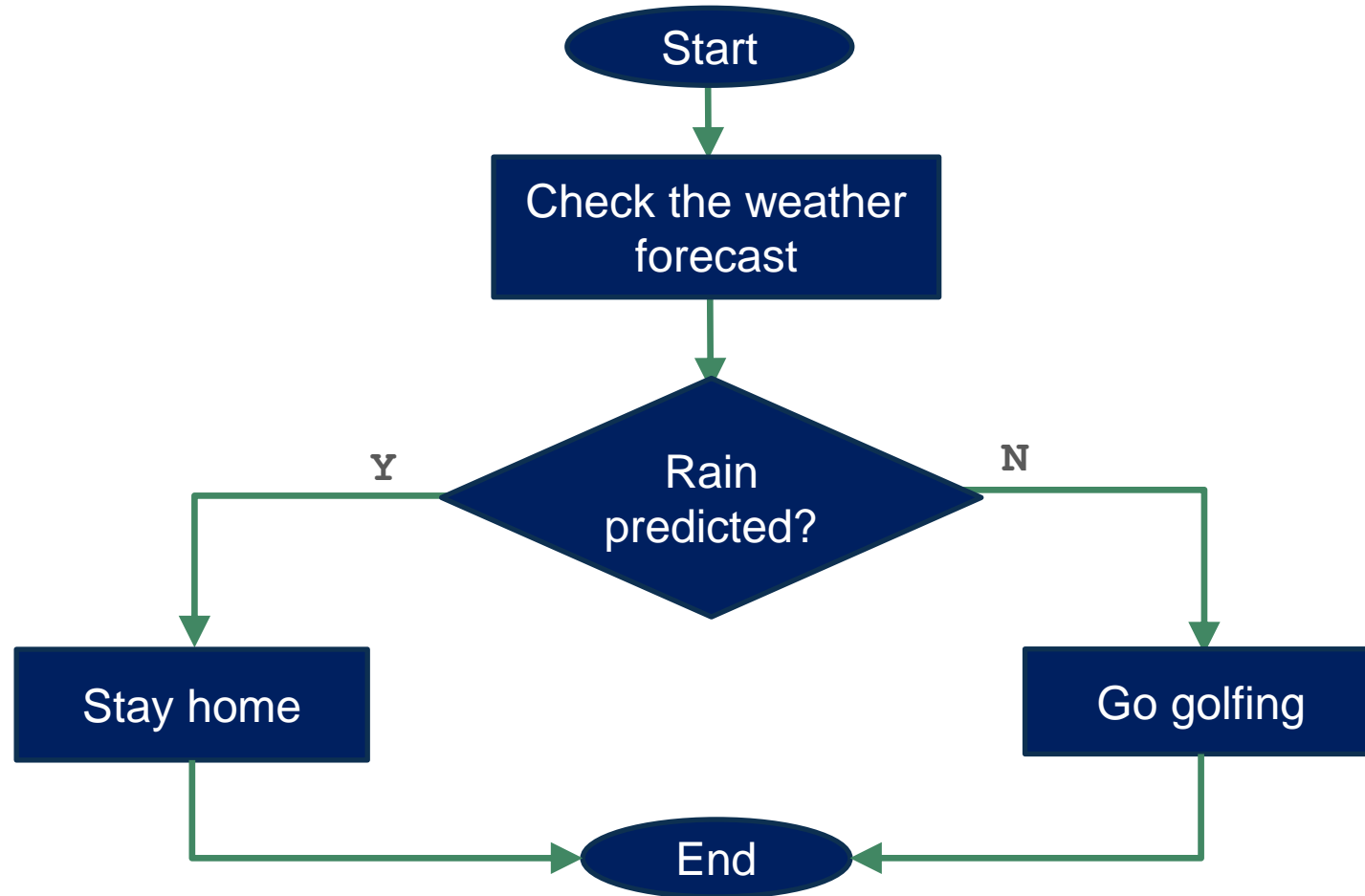


# Flowcharts

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



# Flowchart: Should I play golf?





# Pseudocode

```
program start
check weather forecast

if rain predicted
    Stay home
else
    Go golfing
end if
program end
```

```
check weather forecast

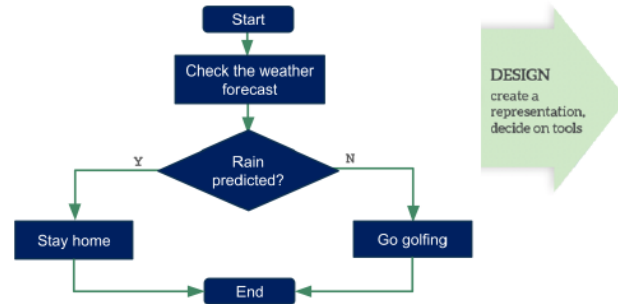
if rain predicted
    Stay home
else
    Go golfing
end if
```



# Group Activity: ALT 2 - Design

## Pseudo-code

```
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check weather forecast
if rain predicted
  Stay home
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## Flowcharts

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30 minutes





Oide



An Roinn Oideachais  
Department of Education

