



Oide

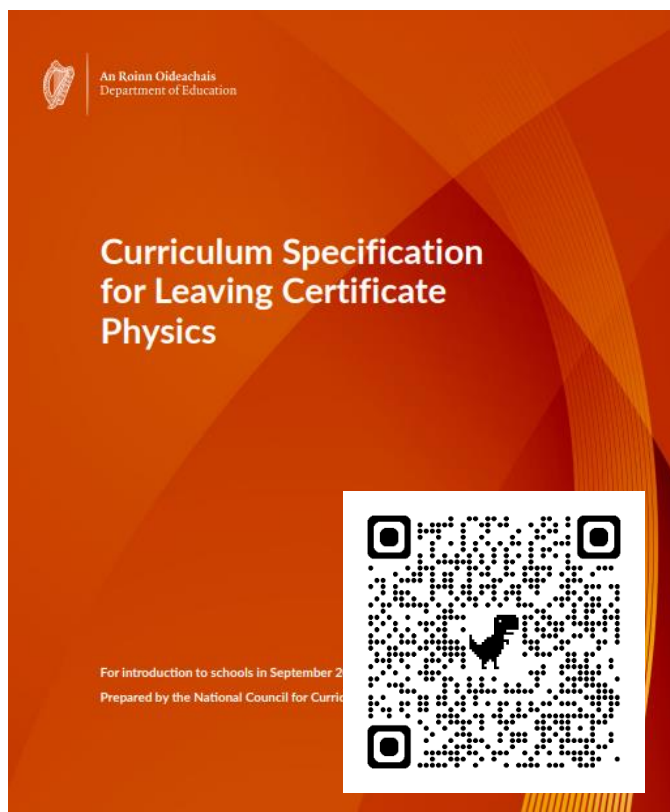
Tacú leis an bhFoghlaim
Ghairmiúil i measc Ceannairí
Scoile agus Múinteoirí

Supporting the Professional
Learning of School Leaders
and Teachers

Physics

Professional Learning Booklet 2024-2025





<https://bit.ly/40isOtf>



Contextual Strands

Which strand are you reading?

Notes

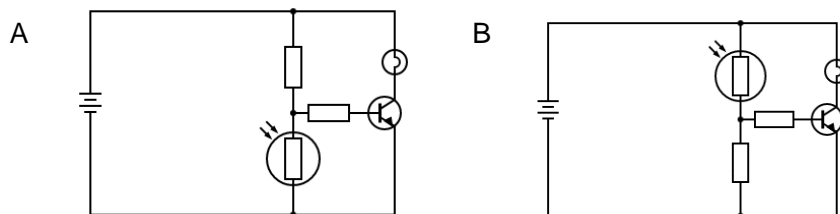


Session 1: Reflection

Notes:

Session 2:

Streetlight Circuit



Which circuit best represents a street-light system?

Why?

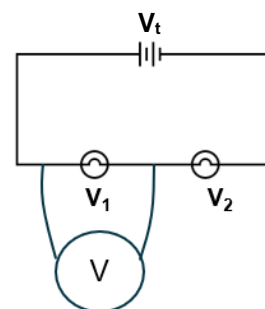
Series Circuit Investigation

Build this circuit

Use a multi-meter to take the relevant measurements

Complete the table

	V_t	V_1	V_2
2 MES blubs			
MES + LED			
What do you notice?			



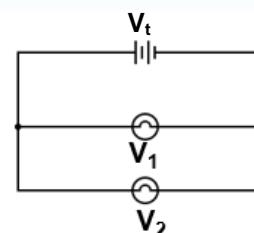
Parallel Circuit Investigation

Build this circuit

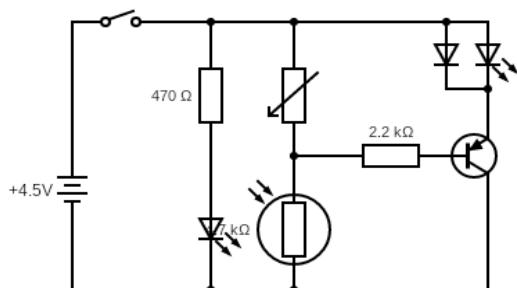
Use a multi-meter to take the relevant measurements

Complete the table

	V_t	V_1	V_2
2 MES blubs			
MES + LED			
What do you notice?			



Sensor Board Investigation



Build this circuit

Move your hand over the LDR

What do you notice?

Vary the resistance in the variable resistor

What do you notice?

Measure the voltage across the LED output...

- When the LDR is in the dark (V_{dark})
- When the LDR is in the light (V_{light})

	V_{dark}	V_{light}
Output voltage		
What do you notice?		

What other outputs could be used

What other sensors would be used

What function could some of those circuits serve?

Session 2: reflection

Notes:



SC Physics

Consider the pros and cons of each of these themed approaches

2.2 Travelling Waves as (waves intro)	Pros
2.3 Wave Behaviour..... (optics)	
2.4 Electromagnetic Energy(em spectrum)	
2.5 Sound Energy	Cons
2.6 Principle of Superposition...	
2.7 Wave Effects (Doppler Effect)	

2.3 Wave Behaviour..... (optics)	Pros
2.2 Travelling Waves as (waves intro)	
2.6 Principle of Superposition... (Young etc.)	
2.4 Electromagnetic Energy(em spectrum)	Cons
2.5 Sound Energy	
2.6 Principle of Superposition... (stn waves)	
2.7 Wave Effects (Doppler Effect)	

2.3 Wave Behaviour..... (optics)	Pros
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2.4 Electromagnetic Energy(em spectrum)	Cons
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2.3 Wave Behaviour..... (optics)	Pros
2.2 Travelling Waves as (waves intro)	
2.6 Principle of Superposition... (Young etc.)	
2.4 Electromagnetic Energy(em spectrum)	Cons
4.2 Photoelectric emission....(wave-particle...)	

Skeleton Plan

5th yr	Term 1	Term 2	Term 3
assessment			
Work for AAC			
6th yr	Term 1	Term 2	Term 3
assessment			
Work for AAC			



5th yr Physics**Unit of Learning, Autumn 2025**

Strand	topic	Activities	Practical	time	Assessment



Session 3: reflection

What have you learned?

What questions remain?

