



Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

Supporting the Professional Learning of School Leaders and Teachers

Graphics

PLE 2023/24





Oide is a new support service for school leaders and teachers, funded by the Department of Education. Launched on September 1, 2023.

Formed from the integration of four existing support services:

- Centre for School Leadership (CSL)
- Junior Cycle for Teachers (JCT)
- National Induction Programme for Teachers (NIPT)
- Professional Development Service for Teachers (PDST)



Partners





An Roinn Oideachais Department of Education

www.education.ie



www.examinations.ie





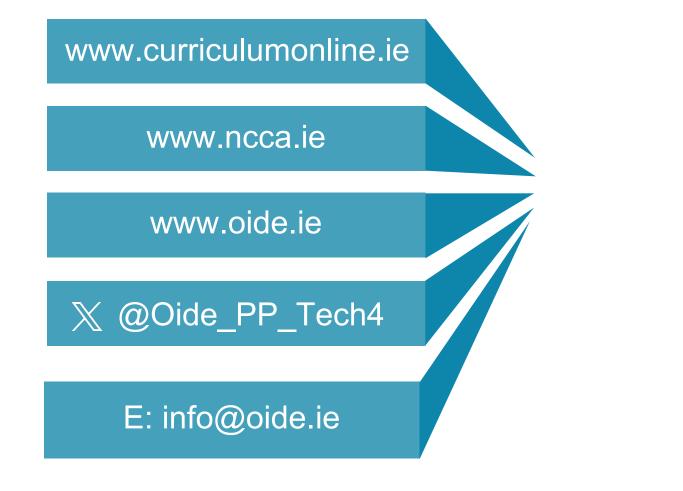
An Chomhairle Náisiúnta Curaclaim agus Measúnachta National Council for Curriculum and Assessment

www.ncca.ie



Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

Key Website / Online information









Mailing List

Oide

Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

Meet the Team - Graphics



Seán Kehoe Professional Learning Leader



Kevin Grant Professional Learning Leader



Andrew Doherty Professional Learning Leader





Barry Nolan Senior Leader

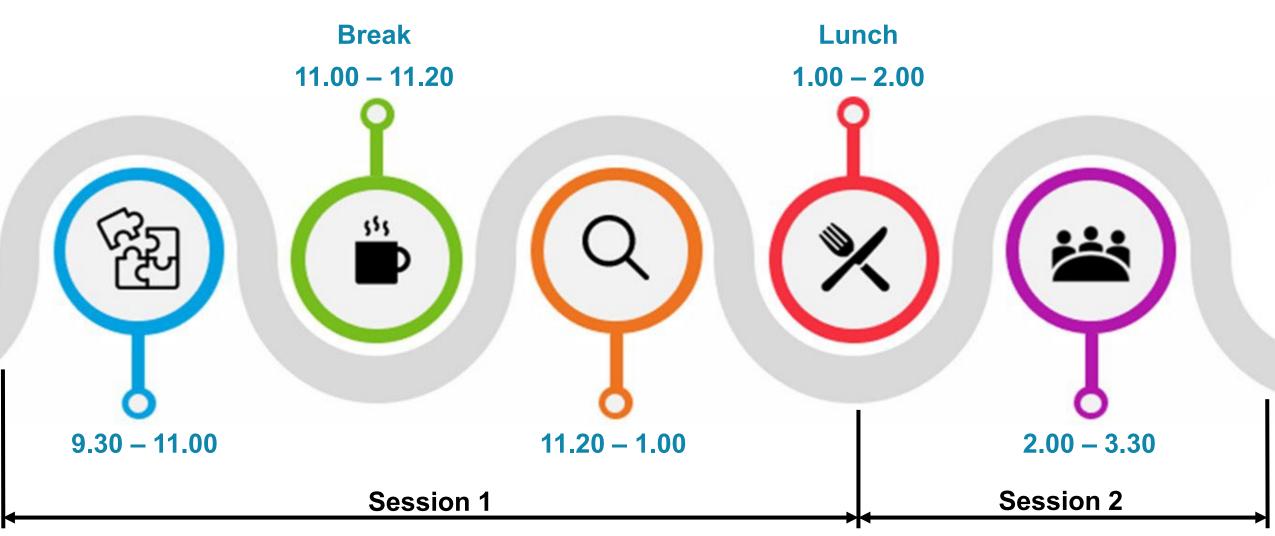


John Kilgannon Professional Learning Leader

Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

Today's Workshop

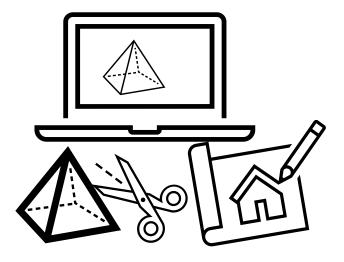




Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí



Theme for Today



Students as active agents in their learning



Workshop Resources

Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí



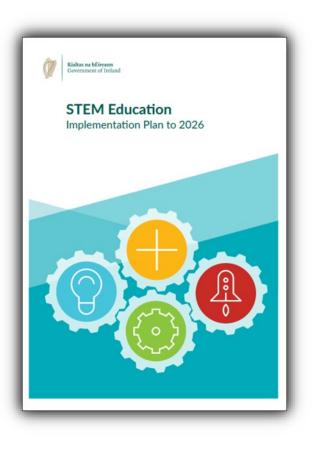


An Roinn Oideachais Department of Education

> Students as active agents in their learning

> > Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

STEM Education -Implementation Plan to 2026



We must enable learners to become active and reflective participants by providing a range of learning and formative assessment experiences that enhances their curiosity, inquiry, creativity and problem-solving abilities.

STEM Education Implementation Plan to 2026, page 19

Tacú leis an bhFoghlaimSGhairmiúil i measc CeannairíLScoile agus Múinteoiría





Tacú leis an bhFoghlaim
Ghairmiúil i measc Ceannairí
Scoile agus MúinteoiríSupporting the Professional
Learning of School Leaders
and Teachers

REALISATION

ACTIVE

3D GRAPHIC

APPLIED TECHNOLOGY ENGINEERING

WOOD TECHNOLOGY MATHEMATICS

VISUAL ART SCIENCE

20 GRAPHA

Graphics PLE 2023/2024 Session 1





In this session, we will...

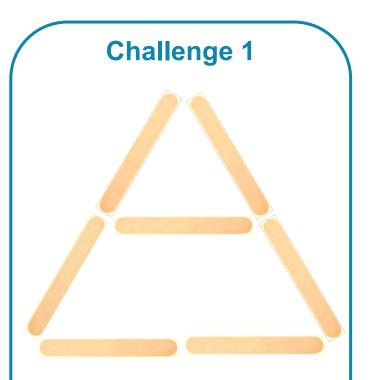


Explore how the communication element provides opportunities to enrich learning in the Graphics classroom



Consider how a variety of graphical media can be used to communicate an understanding of geometry

Introductions: Group Activity



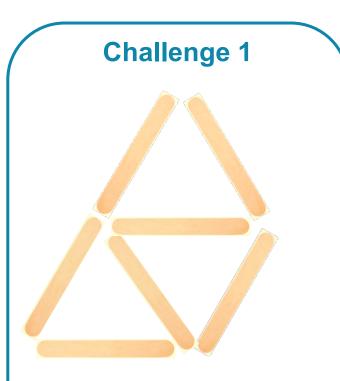
Can you form three triangles by moving two lollipop sticks?



Can you form three triangles by moving three lollipop sticks?



Solutions



Can you form three triangles by moving two lollipop sticks? Can you form three triangles by moving three lollipop sticks?

Challenge 2



By adding just four lollipop sticks can you form four triangles and two squares?

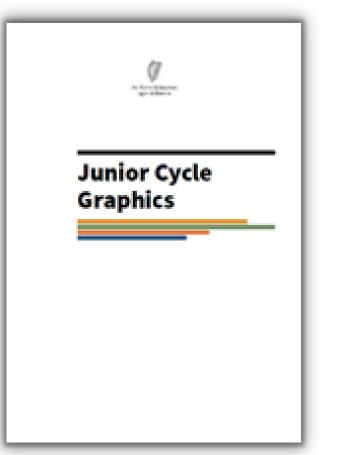


Group Feedback & Discussion



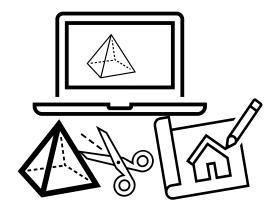
- What are the opportunities for student learning in this task/activity?
- What are the challenges for students in this task/activity?
- Are there opportunities for further learning in this task?

Graphics Specification



The study of Graphics at junior cycle aims to: develop students cognitive and practical skills associated with modelling and graphical communication.

Graphics Specification, page 5



Pause and Reflect





Reflecting on Feedback..



How did this inform the design of today's PLE workshop?

What is new in Graphics classroom?

Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

	Oide	Scoile agus Müinteoirí	Supporting the Professional Learning of School Leaders and Teachers		Strand 2: 3D Graphic engage with, understa concepts and principle modelling systems and strand is of specific in student's ability in visu Student's should as a	and and use the fundamental ples underpinning 3D objects, importance in developing each ual imagery and representation a result be able to accurately tree dimensions and apply these 19	Strand 3: Applied Graphics- In this strand, students will draw on the knowledge, principles and techniques developed through the 2D Graphics and 3D Graphics strands to create and communicate solutions and information graphically. Students should be encouraged to investigate their physical environment and to apply the principles of 2D Graphics and 3D Graphics to the solutions and solve these problems. Students should be able to select the most appropriate methods to communicate their solutions and solve these problems, both in terms of their selection of graphical media and the mechanism for their utilisation.	Graphics specification	Oide	
	Action Verbs Analyse: study or examine something in detail, break down in order to bring out the essentia elements or structure; identify parts and relationships, and to interpret information to reach conclusions	the different strands t element encourage st a artefacts to assist s spatial ability. The student in developing recognising spatial p manipulation.	The learning outcomes from that are associated with this students to investigate a range students in developing their learning outcomes aid the ng their abilities from initially properties to visualising their	Students should be able to: 1 visualise the maipulation of 2D shapes 2 analyse graphical information for the planning of a 2D solution 3 derive 2D solutions using appropriate media	a 3D solution	nipulation of 3D objects al information for the planning of vos using appropriate media	Students should be able to: 3.1 recognise 2D and 3D features in everyday objects and artefacts 3.2 appreciate the hidden features of an object or an artefact necessary for its representation 3.3 demonstrate their spatial understanding by modelling and/or simulation	describe how evidence supports or does not support a judgement; identify the limitations of evidence in conclusions; make judgements about the ideas, solutions or methods Generate: to produce or create Illustrate: (graphically) use drawings to describe something	Junior Cycle Graphics	
/ Elements	andior knowledge and understanding to explain a giver situation or real circumstances Appreciate: recorning the meaning of levels a practical understandin verbal or other signs to share meaning or exchange information interaction between sender and or other signs to share meaning or exchange information interaction between sender and understand Construct: develop information in a diagrammatic or logical form; not a thatual recall but by analogy or by using and putting together information Create: process and give form to the topic of what is to be created used a new form Demonstrate: prove or make clean itustrating with examples of practical application Derive: to formulate or prepare illustrating with examples of practical application Derive: to formulate or prepare illustrating with examples of procepts advance a piece of word or an idea from an initial state to a more advanced state Evaluate: (data) collect and examine data to make judgements and appraisals, describe how evidence supports or does not support a conclusion in an inquity or investigation, identify the limitations of data in conclusions; make	different strands that element encourage understanding of Gra solutions to everyda develop the creative ai develop and communi influenced by their lear or or	Design Thinking- The learning outcomes from the different strands that are associated with this element encourage students to use their understanding of Graphics to develop ideas and solutions to everyday problems. Students will develop the creative and innovative skills needed to develop the creative and innovative skills needed to develop and communicate their design solutions, influenced by their learning under the three strands.	 creation of solutions 5 illustrate ideas using free-hand sketches to accurately communicate their thought process 6 apply their understanding of geometric 	other media to accurately communicate the thought process 2.6 apply their understanding of 3D principles to solve problems 2.7 construct solutions to presented and/or defined problems		graphical techniques 3.5 analyse and evaluate both their own work, and the work of others	Illustrate: use examples to describe something Interpret: use knowledge and understanding to recognise trends and draw conclusions from given information Interpret: (sesthetic) assign meaning to objects on the basis of observations and contextual knowledge, translate the effect of		
Liements		different strands that element encourage information, and to de problems. Emphasis developing the studen through a range of relative to specific star	te learning outcomes from the tait are associated with this subdents to communicate e media to relay technical design ideas and solutions to tais should be placed on ents' abilities to communicate f graphical media and make propriateness of specific media ages of a design process.	thinking during the course of an activity using a variety of media 9 represent 3D information using 2D conventions			prototyping using a variety of media respectively a variety of media .	an image into words by reasoning and explaining on the basis of reflection and understanding why the image is how it is and is not different. Investigate: observe, study, or make a detailed and systematic examination, to establish facts and reach new conclusions Recognise: identify facts,		
		a Geometric principie learning outcomes fro are associated with students to execut e geometric shapes and two-dimensional representations and problems. Students wi classroom activities to principies and constitu-	es and constructions- The rorm the different strands that the this element encourage use their understanding of d objects in the construction of and three-dimensional in the solving of geometric will adapt their knowledge from to explore the role of geometric tructions in the natural world	shapes 11 appreciate the application of geometric constructions in the study of other areas 12 construct 2D solutions accurately in accordance with graphical conventions	and surfaces 2.11 appreciate the app in the study of othe 2.12 generate and dev appropriate geome constructions 2.13 apply geometric p	pplication of geometric principles her areas w elop design ideas using	 3.10 investigate and apply the principles of plane and descriptive geometries to create solutions 3.11 investigate how geometric principles and constructions found in the natural world have provided inspiration for human applications 3.12 develop an appropriate graphical representation of a solution to a confextual problem of their choice 	charactenstics or concepts that are critical (relevant/ appropriate) to the understanding of a situation, event, process or phenomenon Represent: bringing clearly and distinctively to mind by use of description or imagination Solve: find an answer through reasoning		
			2D convention First angle orthographic, oblique, isometric drawing, autonometric		Graphical Conventions		and practices associated with drawing and illustration	Understand: have and apply a well-organised body of knowledge		
		of 3D solution	reflects length, depth and height	nt. ract problem derived and/or presented using 3D	Contextual problem Geometric constructions		al world experience, situation or application	Use: apply knowledge or rules to put theory into practice; employ something in a targeted way		
		Plane & Descriptive	The graphical representation, de	description and analysis of relationships between ce. The graphical representation of three	Geometric principles	The fundamental principles which	ch define and describe the nature of points, lines and planes nal and three dimensional shapes, solids, projection systems and n.	Visualise: make something visible to the mind or imagination something that is abstract or not visible or present to the eye		
				vww.oide.ie	info@oide.ie	@Oide_PP_Tech4	Ø c	bible of prostration in the cycle bible of the strategies of the cycle bible of the strategies of the cycle and the strategies of the strategies of the cycle and the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the strategies of the st		



ons through modelling and

pproach to a design tas

The Communicating Element

Communicating- The learning outcomes from the different strands that are associated with this element encourage students to communicate through appropriate media to relay technical information, and to design ideas and solutions to problems. Emphasis should be placed on developing the students' abilities to communicate through a range of graphical media and make decisions on the appropriateness of specific media relative to specific stages of a design process.

Explore the Learning Outcomes



'Learning outcomes are statements that describe what **knowledge**, understanding, skills and values students should be able to demonstrate having studied Graphics in junior cycle'. Graphics Specification, page 13

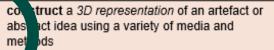
2.8

me

and

Communicating- The learning outcomes from the 1.8 communicate the progression of ide different strands that are associated with this element encourage students to communicate through appropriate media to relay technical information, and to design ideas and solutions to problems. Emphasis should be placed on developing the students' abilities to communicate through a range of graphical media and make decisions on the appropriateness of specific media relative to specific stages of a design process.

- thinking during the course of an activ using a variety of media
- 1.9 represent 3D information using 2D conventions



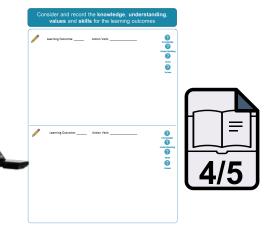
imunicate the progression of ideas/thinking he course of an activity using a variety of

3.9

- 3.6 develop design ideas/solutions through modelling and prototyping using a variety of media
- 3.7 use computer-aided graphics to communicate design solutions effectively



- Read the assigned learning outcomes and note the strand they align with
- Read the Element and Strand descriptor
- Consider and record the knowledge, understanding values and skills for the assigned learning outcomes





Group Feedback & Discussion





Consider and record the **knowledge**, **understanding**, **values** and **skills** for the assigned learning outcomes



Sandcastle Activity





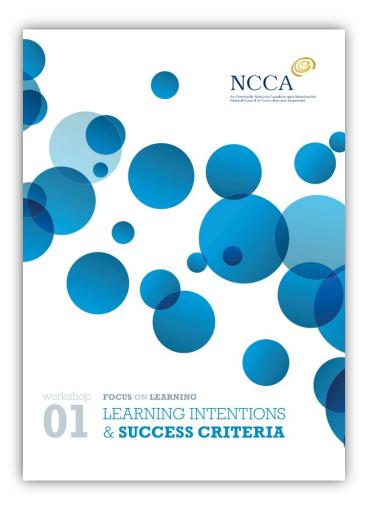


Graphically communicate how you would make a sandcastle



Success Criteria





They are developed by the teacher and/or the student and describe what success looks like.

They help the teacher and student to make judgements about the quality of student learning

NCCA, Focus on Learning, Workshop 01, page 5

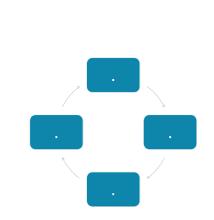




Sandcastle Activity



7 minutes

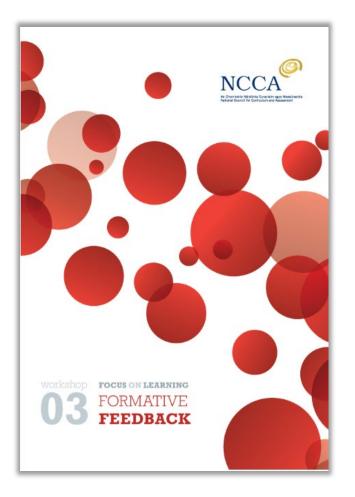


Graphically communicate how you would make a sandcastle

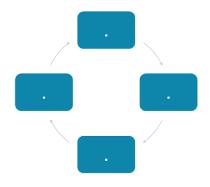




Effective Feedback / Peer Assessment









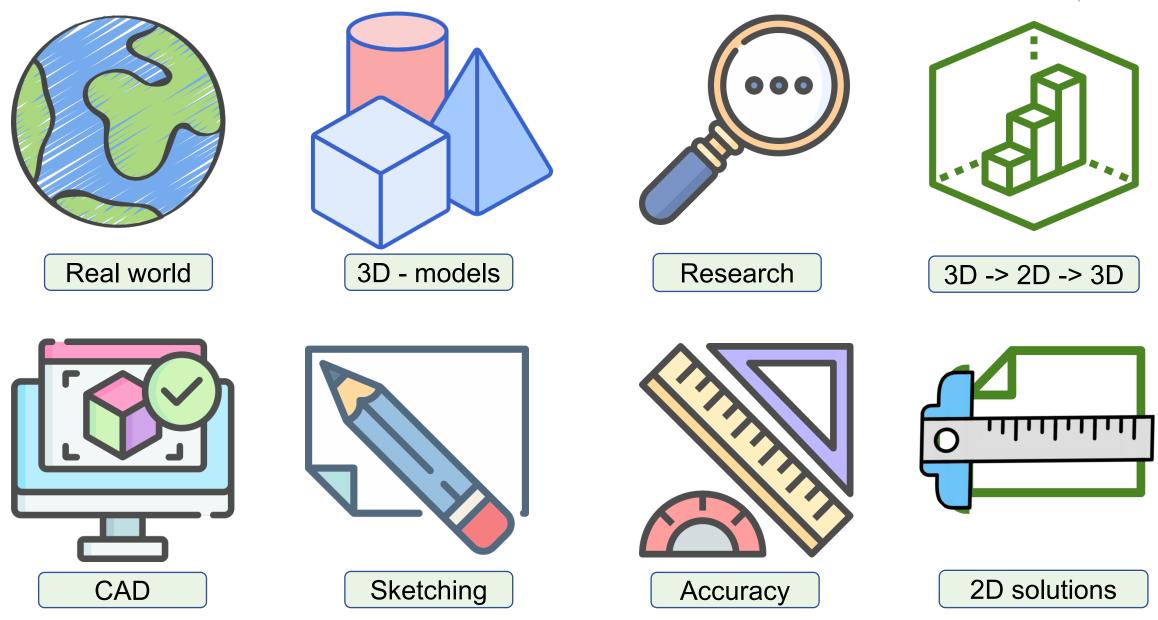
Discussion Point

How does the co-construction of success criteria empower students to become active agents in their own learning?



Pedagogical Approaches







Accessing Learning

different strands that are associated with this thinking element encourage students to communicate using a through appropriate media to relay technical	during the course of an activity variety of media ant 3D information using 2D 2	2.8	abstract idea using a variety of media and methods communicate the progression of ideas/thinking during the course of an activity using a variety of media	3.6 3.7 3.8 3.9	 develop design ideas/solutions through modelling and prototyping using a variety of media use computer-aided graphics to communicate design solutions effectively represent graphically their approach to a design task apply a variety of rendering and presentation techniques to enhance the communication of solutions

How is the communicating element evident in this activity?









- What are the opportunities for student learning in this task/activity?
- What are the challenges for students in this task/activity?
- Are there opportunities for further learning in this task?



Let's consider the approach of a Graphics teacher





St Declan's Community College

Context

- Rural school
- 700 students approx.
- 2nd Year Graphics Class, term 1

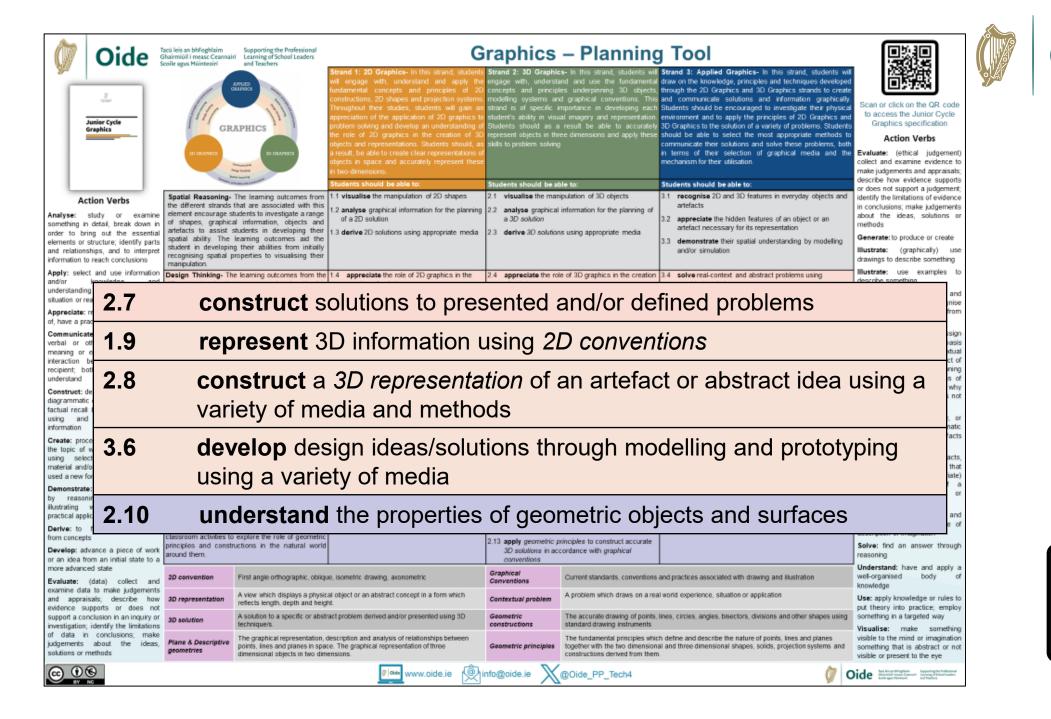
Prior Learning

 basic geometric constructions, construction of polygons, orthographic projection, research project on food packaging

• Focus of Learning

Regular geometric solids and projection systems







Oide Taxis inte a Menghulan Charminal I Instead Calamatia Scole agus Mulancoir Supporting the Professional Instanting of Debus Leaders Unit of	cning: Class	s group: Second years	Oide
Prior Learning: basic geometric constructions, co of polygons, orthographic projection, research pro food packaging	2.7 construct solutions to presented and/or defined problems 2.8 construct a 3D representation of an artefact or abstract idea using a variety of media and methods 3.6 develop design ideas/solutions through modelling and• Create a CAD • Make a card m • Communicate	o model of their chosen geometric solid model of their chosen geometric solid e their analysis of the chosen geometric de rendered sketches, real world examples	
Focus of Learning: Regular geometric solids and projection systems	2.10 understand the properties of geometric objects and surfaces their model	board to generate the orthographic views of completed project to their peers	

- How can students experience the **Key Learning**?
- Evidence of Learning:

sides and t

their empl

Key Learning:

- Create a CAD model of their chosen geometric solid
- Make a card model of their chosen geometric solid
- Communicate their analysis of the chosen geometric solid to include rendered sketches, real world examples
- Use a planes board to generate the orthographic views of their model
 - Present their completed project to their peers





An Roinn Oideachais Department of Education

Looking at Our School 2022: A Quality Framework for Post-Primary Schools

Inspectorate

Students take responsibility for their own learning and use the learning resources, including digital technologies, provided to them to develop their skills, apply their understanding and extend their knowledge.

Standard

ds	Statements of effective practice	Statements of highly effective practice		
	Students take pride in their learning and follow the guidance they receive to improve it.	Students have a sense of ownership of their learning, take pride in it, and take responsibility for improving it.		
	Students reflect on their behaviour and attitude to learning, and are able to contribute to setting meaningful goals for themselves.	Students reflect on their behaviour and attitude to learning, and are able to set meaningful personal goals as a result of their reflection.		
	Where the school curriculum provides opportunities to do so, students are able to negotiate their learning, thereby increasing their autonomy as learners.	Where the school curriculum provides opportunities to do so, students are able to negotiate and reflect on their learning , thereby increasing their autonomy and effectiveness as learners.		

Students take responsibility for their own learning and use the learning resources, including digital technologies, provided to them **and sourced by themselves**, to develop their skills, apply their understanding and extend their knowledge.



	that takes place in other contexts.	and learning that takes place in other contexts.			
	Students can, with some guidance, transfer and apply skills learned in one context to another context.	Students can, of their own initiative , transfer and apply skills learned in one context to another context.			
	Students are aware of the key skills underpinning the curriculum and of their relevance to present and future learning.	Students can explain the key skills underpinning the curriculum and understand their relevance to present and future learning.			
	Students take the opportunities provided by curriculum and other learning experiences to apply and develop these key skills.	Students take the opportunities provided by curriculum and other learning experiences to apply and develop these key skills consciously and deliberately .			
	Students are confident in using technology individually and with peers to enhance the	Students are innovative , confident and creative in using technology individually and with			

Student Engagement



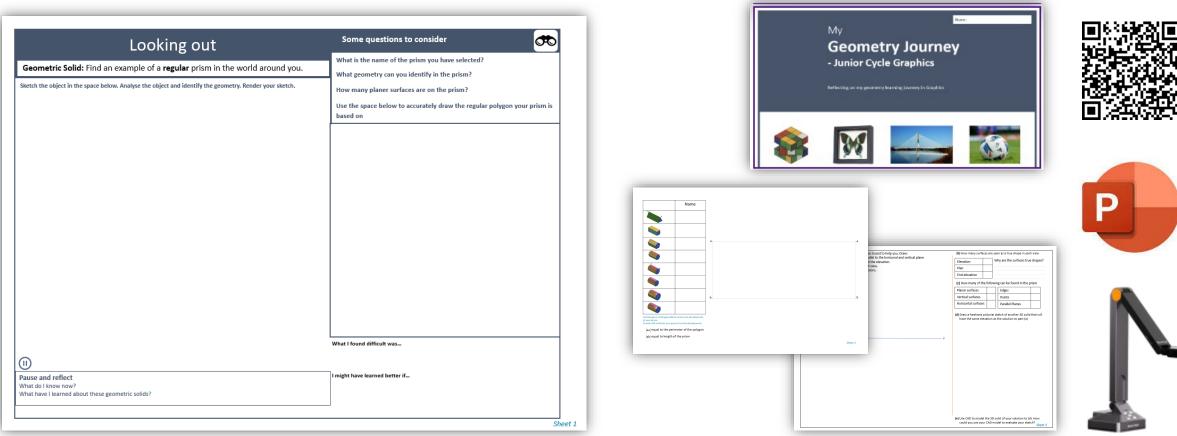








Looking Out Activity



Consider how this resource could be adapted for your context?



Oide

Model Making Activity



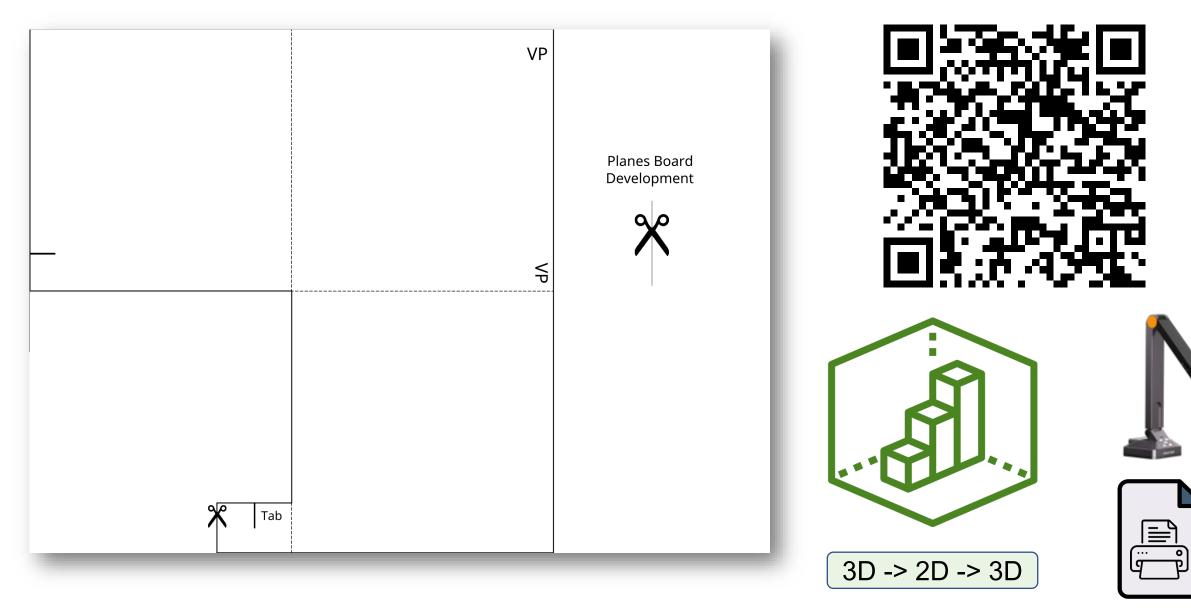
Use the given rectangle to construct your prism



Oide

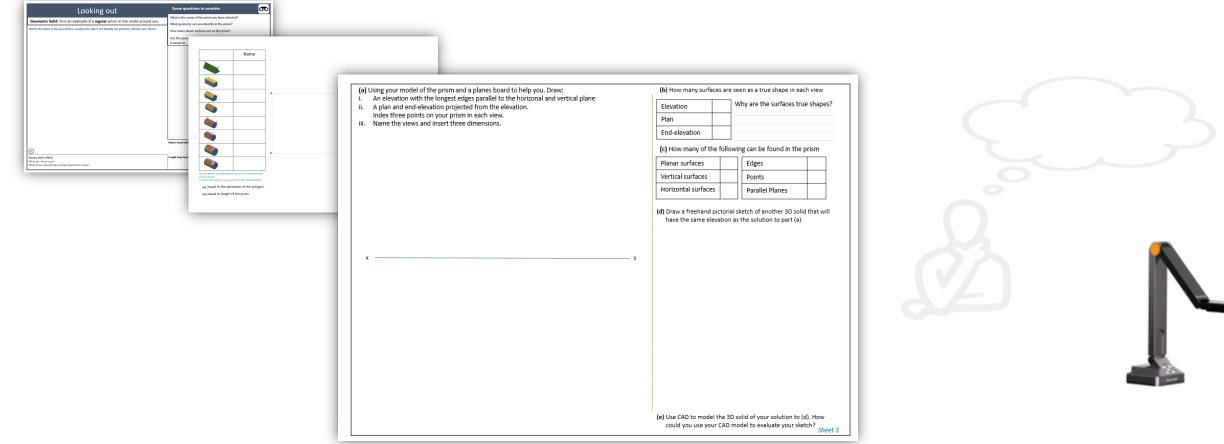
Planes Board





Activating the Learning





9

How can model making be used to support student understanding in the Graphics classroom?





Group Feedback & Discussion

- What are the opportunities for student learning in this task/activity?



- What are the challenges for students in this task/activity?
- Are there opportunities for further learning in this task?





An Roinn Oideachais Department of Education

Looking at Our School 2022: A Quality Framework for Post-Primary Schools

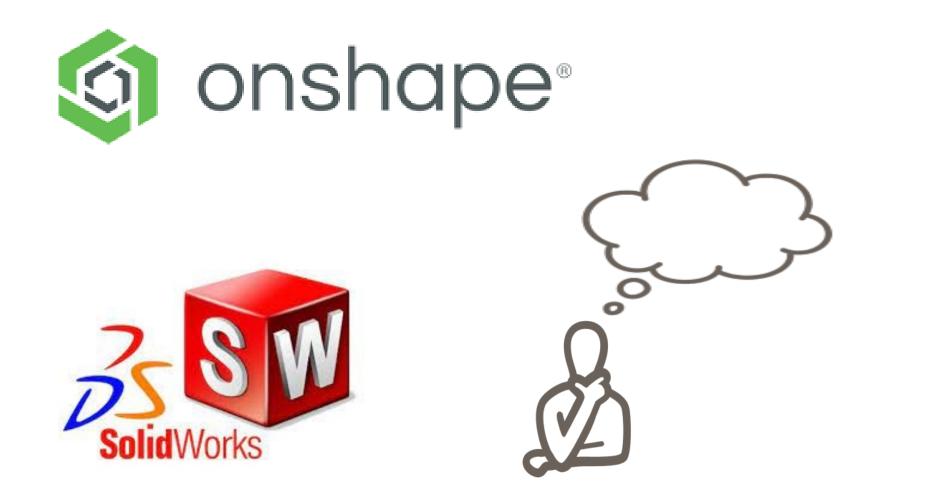
Inspectorate August 2022



Standard	s	Statements of effective practice	Statements of highly effective practice	
		Students take pride in their learning and follow the guidance they receive to improve it.	Students have a sense of ownership of their learning, take pride in it, and take responsibility for improving it.	
		Students reflect on their behaviour and attitude to learning, and are able to contribute to setting meaningful goals for themselves.	Students reflect on their behaviour and attitude to learning, and are able to set meaningful personal goals as a result of their reflection.	
		Where the school curriculum provides opportunities to do so, students are able to negotiate their learning, thereby increasing their autonomy as learners.	Where the school curriculum provides opportunities to do so, students are able to negotiate and reflect on their learning , thereby increasing their autonomy and effectiveness as learners.	
	Students take responsibility for their own learning and use the learning resources, including digital technologies, provided to them to develop their skills, apply their understanding and extend their knowledge.		Students take responsibility for their own learning and use the learning resources, including digital technologies, provided to then and sourced by themselves, to develop their skills, apply their understanding and extend their knowledge.	
	the skills and necessary	areas of the curriculum.	subjects and areas of the curriculum and use these connections to guide their learning.	
for lifelor	ong learning	Students make meaningful connections between school-based learning and learning that takes place in other contexts.	Students make meaningful and authentic connections between school-based learning and learning that takes place in other contexts.	
		Students can, with some guidance, transfer and		
		apply skills learned in one context to another context.	Students can, of their own initiative , transfer and apply skills learned in one context to another context.	
		apply skills learned in one context to another	and apply skills learned in one context to	
		apply skills learned in one context to another context. Students are aware of the key skills underpinning the curriculum and of their	and apply skills learned in one context to another context. Students can explain the key skills underpinning the curriculum and understand	

CAD in the Graphics Classroom







CADe as a Caecoling and Learning Tool Image: Comparison of the prime and planes bard to hely out. Prime Oidee Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime and planes bard to hely out. Prime Image: Comparison of the prime Image: Compar

Name

at equal to the perimeter of t

(c) How many of the following can be found in the prism

Edges

Points

(d) Draw a freehand pictorial sketch of another 3D solid that will have the same elevation as the solution to part (a)

Parallel Planes

Planar surfaces

Vertical surfaces

Horizontal surfaces



(e) Use CAD to model the 3D solid of your solution to (d). How could you use your CAD model to evaluate your sketch?

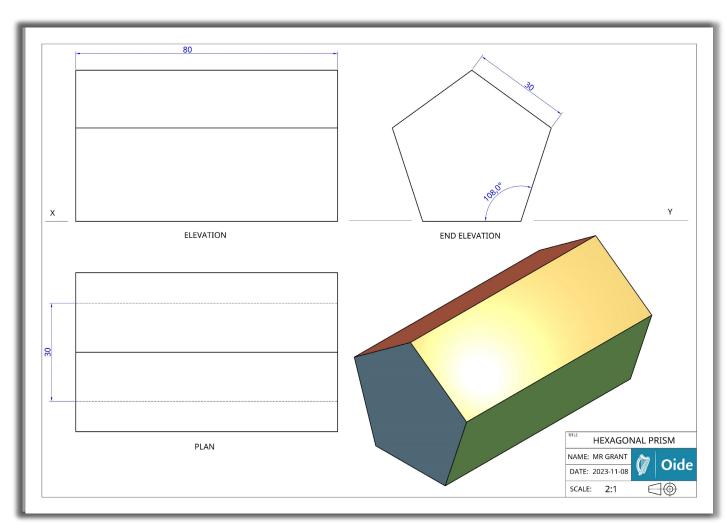


Enacting the Learning

- Model a solution to (d)
- Create a drawing to analyse and evaluate your solution to (d)









Group Feedback & Discussion







How can I use CAD as a teaching and learning tool in my Graphics classroom?



SEC Information Note March 2023



Coimisiún na Scrúduithe Stáit State Examinations Commission Junior Cycle Examinations 2022 Information note on Junior Cycle examinations in a range of subjects March 2023

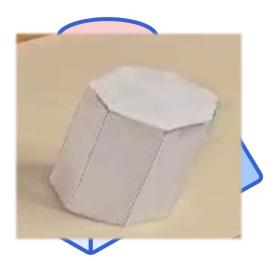
"Teachers are advised to use CAD as a teaching and learning tool, as well as a design and communication tool, by exploring common constructions and geometric principles through this medium."

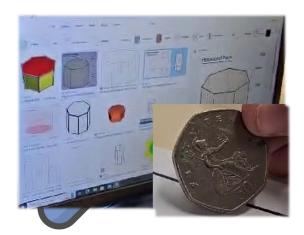
Information note on Junior Cycle examinations in a range of subjects, page 34

Pedagogical Approaches

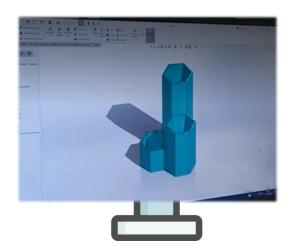






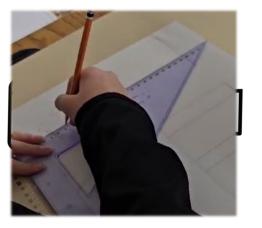














The Communicating Element



Communicating- The learning outcomes from the different strands that are associated with this element encourage students to communicate through appropriate media to relay technical information, and to design ideas and solutions to problems. Emphasis should be placed on developing the students' abilities to communicate through a range of graphical media and make decisions on the appropriateness of specific media relative to specific stages of a design process.



What role did effective task design play in students engaging with the communication element during today's session?



Personal Reflection Moment





- Three points you took from today's discussions
- Two actions you will take on return to your subject department
- One way that you will measure your progress



SKETCH IT Workshops



Sketch It

Oide Creativity and Oide Technology Subjects, in collaboration with retired Technologies teacher and artist Jim O'Farrell, present a one-day elective workshop, open to post-primary teachers from all subject disciplines.

This workshop offers participants an opportunity to:

- · explore techniques to enhance visual communication and observational skills
- investigate and experiment with shape and form using a range of sketching techniques
- reflect and collaborate to develop personal sketching efficacy.

Date / Times	Venue
Saturday 11 ^h November 2023	Kildare Education Support Centre,
10:15 a.m 3:30 p.m.	Friary Road, Kildare Town, Co Kildare, R51 KN66
Saturday 25 th November 2023	Donegal Education Support Centre,
10:15 a.m 3:30 p.m.	Floor 2/3, Pier 1, Quay Street, Donegal Town, Co. Donegal
Saturday 2 nd December 2023	Tralee Education Support Centre,
10:15 a.m 3:30 p.m.	Dromthacker, Tralee, Co. Kerry, V92 HK52
Saturday 24 th February 2024	Navan Education Support Centre,
10:15 a.m 3:30 p.m.	Athlumney, Navan, Co. Meath, C15 RK03
Saturday 9 th March 2024	Dublin West Education Support Centre,
10:15 a.m 3:30 p.m.	Old Blessington Rd, Tallaght, Dublin 24, D24 PX58
Saturday 13 th April 2024	Galway Education Support Centre,
10:15 a.m 3:30 p.m.	Cluain Mhuire, Wellpark. Galway, H91 R284
Saturday 20 th April 2024	Laois Education Support Centre,
10:15 a.m 3:30 p.m.	Block Rd, Kilminchy, Portlaoise, Co. Laois, R32 CP26



Jim O'Farrell, a Limerick native and former Technologies teacher, is renowned for his art capturing the essence of the city and Irish landscapes. His work ranges from local commissions like 'Glimpses of Old Limerick' a series of pen and ink drawings of significant Limerick buildings to international projects in India. He has also designed a stained-glass window in St. Nicholas's Church, Limerick, and his work has been featured in the Sunday Independent.

Spaces are limited. A waiting list will apply. Register on www.creativity.oide.ie

We strive to host inclusive, accessible events that enable all individuals to engage fully. To request an accommodation or for enquiries about accessibility, please contact creativity@oide.ie





SKETCH IT registration form



In this session, we...



Explored how the communication element provides opportunities to enrich learning in the Graphics classroom



Considered how a variety of graphical media can be used to communicate an understanding of geometry



Tacú leis an bhFoghlaim
Ghairmiúil i measc Ceannairí
Scoile agus MúinteoiríSupporting the Professional
Learning of School Leaders
and Teachers

REALISATION

ACTIVE

3D GRAPHIC

APPLIED TECHNOLOGY ENGINEERING

WOOD TECHNOLOGY MATHEMATICS

VISUAL ART SCIENCE

20 GRAPHA

Graphics PLE 2023/2024 Session 2



Feedback

Please take a few moments to give us your feedback on today's PLE session

Your feedback helps us evaluate the day and guides us in designing future events

https://registration.oide.ie/



Oide

Click or scan the QR code to access the feedback form for today's session

OR

Feedback

pport: <u>registrationsupport@oide.ie</u>

Engaging in Graphical Communication 🖉 Oide



RIAI









Students as active agents in their learning



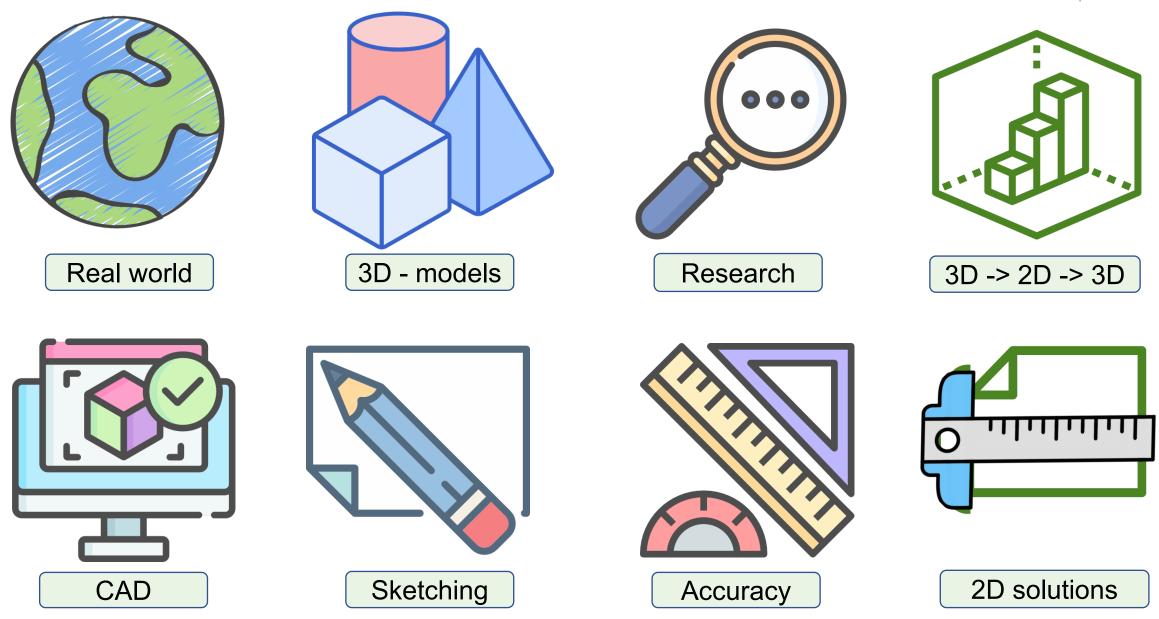
In this session, we will...



Collaboratively plan a unit of learning that is active and student centred

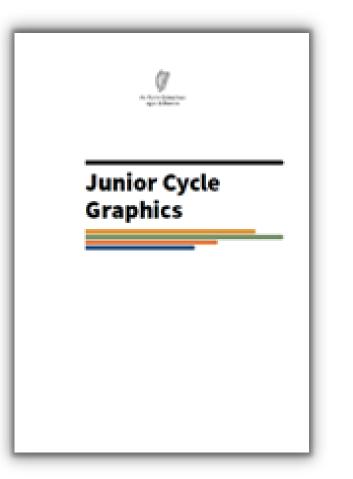
Pedagogical Approaches







Graphics Specification



Throughout the course, students will explore the geometric world to gain an appreciation of the importance of graphics in the world around them.

Graphics Specification, page 4



Let's consider the geometry in the Paris 2024 Olympics





PARIS 2024







Paris 2024 Olympics



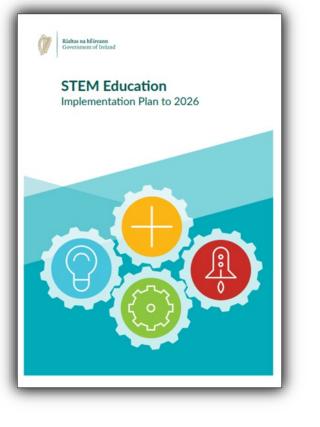




Teachers engage with students' opinions, dispositions, interests and contexts, and modify their teaching practice to build on opportunities and address any limitations that they present. Teachers engage with students' opinions, dispositions, interests and contexts, and modify their teaching practice to build on opportunities and address any limitations that they present. **Teachers empower students to exploit these opportunities and experience success.**



STEM Education -Implementation Plan to 2026

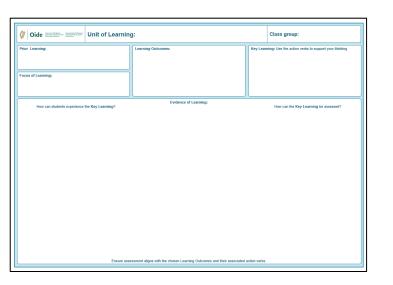


We must enable learners to become active and reflective participants by providing a range of learning and formative assessment experiences that enhances their curiosity, inquiry, creativity and problem-solving abilities.

STEM Education Implementation Plan to 2026, page 19



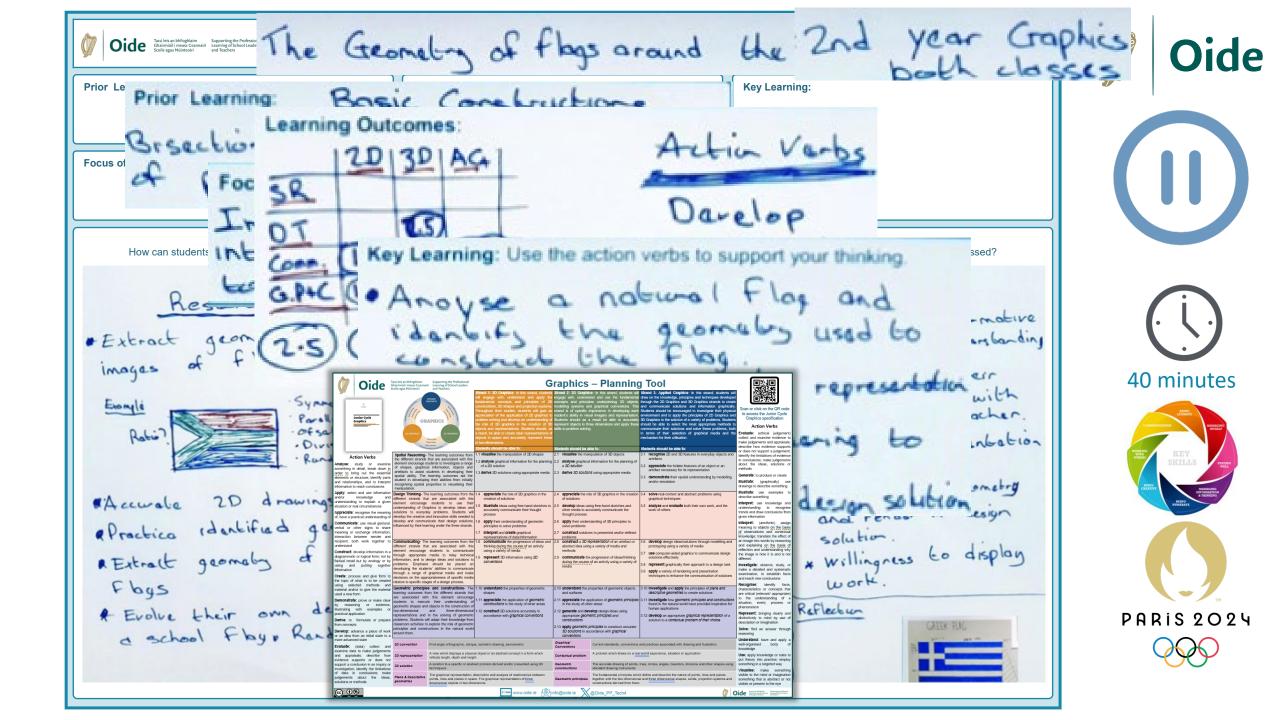




Let's collaborate to generate practical learning experiences that activate key learning



0i	Tacú leis an bhFoghlaim Supporting the Professional Challenside	Graphics – Planning Tool		Oide
Junior Cycl	Oide Test the a Montpoline Characterial Instance Characterial Standard Hondes Supervising the Automation Langer of the Automation Langer Automation Langer Automation Langer Automation Lange	ıg:	Class group:	
Junior Cycl Graphics	Prior Learning:	Learning Outcomes:	Key Learning: Use the action verbs to support your thinking.	
Action Ver Analyse: study of something in detail, b order to bring out t elements or structure; and relationships, and information to reach co	Focus of Learning:			
Apply: select and us and/or knowled; understanding to exp situation or real circum Appreciate: recognise	How can students experience the Key Learning?	Evidence of Learning:	How can the Key Learning be assessed?	
of, have a practical und Communicatis: use vi verbal or other sign meaning or exchange interaction between recipient; both work understand Construct: develop int diagrammatic or logical factual recal but by a using and puttin				NUMBERSON AND AND AND AND AND AND AND AND AND AN
information Create: process and the topic of what is t using selected me material and/or to give used a new form Demonstrate: prove of by reasoning or				CREATURE CREATURE RESIGNATION LESSO RUSELEATE
illustrating with es practical application Derive: to formulate from concepts				
Develop: advance a p or an idea from an init more advanced state Evaluate: (data) , examine data to make and appraisatic appraisatic evidence supports of support a conclusion in investigation; identify t of data in conclus judgements about solutions or methods				
	Ensure ass	essment aligns with the chosen Learning Outcomes and their asso	ociated action verbs.	



Student Engagement



Students as active agents in their learning

Inclusion of all students







Looking at Our School 2022: A Quality Framework for Post-Primary Schools

Inspectorate August 2022



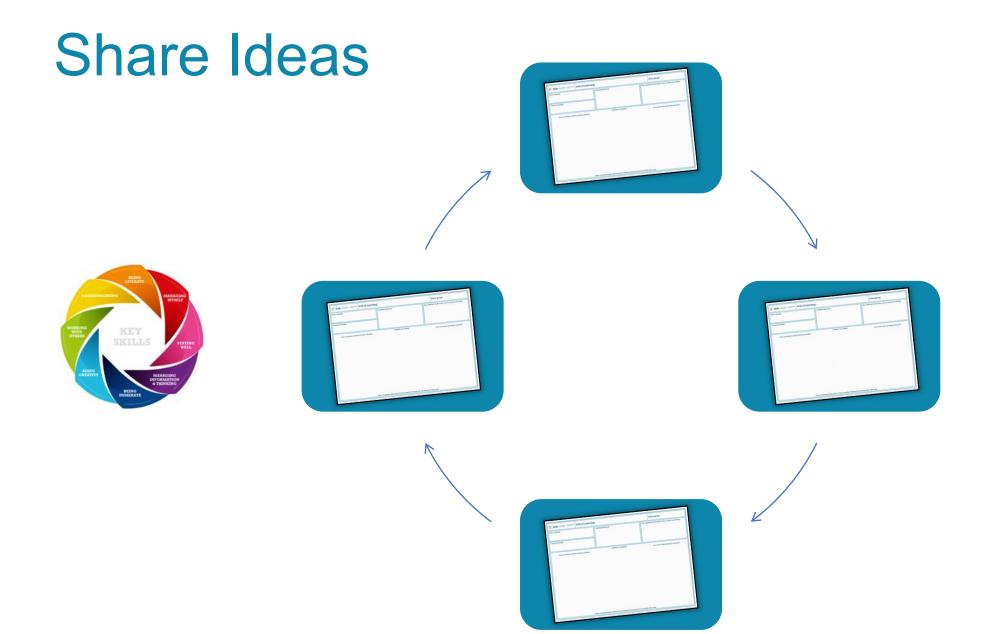
	Standar	ds	Statements of effective practice		Statements of highly effective practice
	The teacher responds to individualTeachers are aware of students' individual			Teachers are aware of students' individual learning needs, interests and abilities,	
Teachers engage with students' opinions, dispositions, interests and contexts, and modify their teaching practice to build on opportunities and address any limitations that they present.		Teachers engage with students' opinions, dispositions, interests and contexts, and modify their teaching practice to build on opportunities and address any limitations that they present. Teachers empower students to exploit these			

Students take pride in their learning and follow	Students have a s
the guidance they receive to improve it.	learning, take prid

Students have a sense of ownership of their learning, take pride in it, and take responsibility for improving it.

opportunities and experience success.







Feedback

BEAL WORLD CONTEXT

- Please take a few moments to give us your feedback on today's PLE session
- Your feedback helps us evaluate the day and guides us in designing future events





20 GRA

Oide

Click or scan the QR code to access the feedback form for today's session

OR

Feedback

oport: <u>registrationsupport@oide.ie</u>



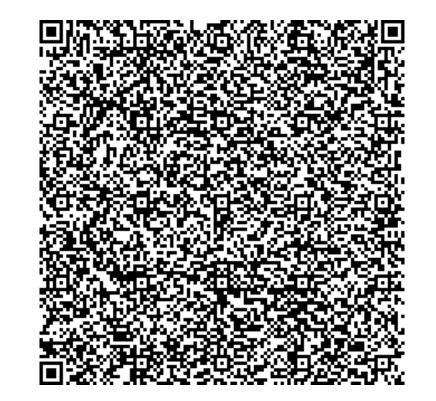
In this session, we...



Collaboratively planned a unit of learning that is active and student centred



Tralee EC 23/01/2024





Oide

Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí

Supporting the Professional Learning of School Leaders and Teachers

Graphics Thank You PLE 2023/24

