Action Verbs

Analyse: study or examine something in detail, break down in order to bring out the essential elements or structure; identify parts and relationships, and to interpret information to reach conclusions

Apply: select and use information knowledge and and/or understanding to explain a given situation or real circumstances

Appreciate: recognise the meaning of, have a practical understanding of

Communicate: use visual gestural, verbal or other signs to share meaning or exchange information; interaction between sender and recipient; both work together to understand

Construct: develop information in a diagrammatic or logical form; not by factual recall but by analogy or by putting together using and information

Create: process and give form to the topic of what is to be created using selected methods and material and/or to give the material used a new form

Demonstrate: prove or make clear by reasoning or evidence, illustrating with examples or practical application

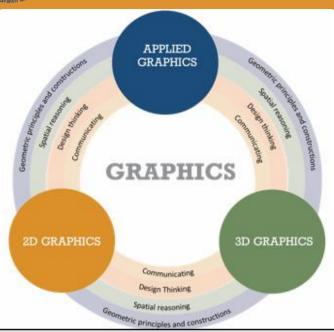
Derive: to be formulate or prepare from concepts

Develop: advance a piece of work or element encourag 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 inquiry or investigation; identify the limitations of data in conclusions; make judgements about the ideas, solutions or methods



QR code for specification



geometries

Graphics Planning

-	"ISraith Shore					To Israith Shole	
APPLIED GRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS CRAPHICS			Strand 1: 2D Graphics- in this strand, students will draw will engage with, understand and apply the fundamental concepts and principles of 2D constructions, 2D shapes and projection systems. Throughout their studies, students will gain an appreciation of the application of 2D graphics to problem solving and develop an understanding of the role of 2D graphics in the creation of 3D objects and representations. Students should, as a result, be able to create clear representations of objects in space and accurately represent				col ma des or ide evi jud sol Ge Illu dra
é	Geor	Spatial reasoning Metric principles and constructions	Students should be able to:	Students should be able	e to:	Students should be able to:	de
; c c c c c c c c c c c c c c c c c c c	 artefacts to assist students in developing their spatial ability. The learning outcomes aid the student in developing their abilities from initially recognising spatial properties to visualising their manipulation. 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 be develop the creative and innovative skills needed to develop and communicate their design solutions, influenced by their learning under the three strands. 			 2.1 visualise the manipulation of 3D objects 2.2 analyse graphical information for the planning of a 3D solution 2.3 derive 3D solutions using appropriate media 		 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 	Int und and infe Int me
g I			creation of solutions 1.5 illustrate ideas using free-hand sketches to	of solutions 2.5 develop ideas using	freehand sketches and other	 3.4 solve real-context and abstract problems using graphical techniques 3.5 analyse and evaluate both their own work, and the work 	ob: kno an and ref the diff
y g				understanding of geometric we problems2.6 apply their understanding of 3D principles to solve problemsd create graphical of data/information2.7 construct solutions to presented and/or defined problems2.7 construct solutions to presented and/or defined problems2.7 construct a 3D representation of an artefact or abstract idea using a variety of media and methods2.9 communicate the progression of ideas/thinking during the course of an activity using a variety of media3.7 solutions accurately in and surfaces1 the properties of geometric the study of other areas D solutions accurately in o graphical conventions2.10 understand the properties of geometric principles and surfaces2.12 generate and develop design ideas using appropriate geometric principles and constructions3.12 four hur		of others	Inv ma exa rea Rea
 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. Geometric principles and constructions- The learning outcomes from the different strands that are associated with this element encourage students to execute their understanding of geometric shapes and 		that are associated with this re students to communicate te media to relay technical o design ideas and solutions to should be placed on developing cies to communicate through a media and make decisions on the specific media relative to specific	 thinking during the course of an activity using a variety of media 1.9 represent 3D information using 2D conventions 			 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 3.8 represent graphically their approach to a design task 3.9 apply a variety of rendering and presentation techniques to enhance the communication of solutions 	ues are to situ pho dis des Sol
		ne different strands that are s element encourage students to standing of geometric shapes and truction of two-dimensional and epresentations and in the solving lems. Students will adapt their assroom activities to explore the rinciples and constructions in the	shapes 1.11 appreciate the application of <i>geometric</i> <i>constructions</i> in the study of other areas 1.12 construct 2D solutions accurately in accordance with <i>graphical conventions</i>			 3.10 investigate and apply the principles of <i>plane and descriptive geometries</i> to create solutions 3.11 investigate how <i>geometric principles and constructions</i> found in the natural world have provided inspiration for human applications 3.12 develop an appropriate <i>graphical_representation</i> of a solution to a <i>contextual problem</i> chosen by them 	rea Un we Use put sor Vis to sor visi
	2D convention	First angle orthographic, oblique, is	sometric drawing, axonometric	Graphical Conventions	Current standards, conventions a	and practices associated with drawing and illustration	1
	3D representation	A view which displays a physical object or an abstract concept in a form which reflects length, depth and height.		Contextual problem	A problem which draws on a real world experience, situation or application The accurate drawing of points, lines, circles, angles, bisectors, divisions and other shapes using standard drawing instruments The fundamental principles which define and describe the nature of points, lines and planes together with the two dimensional and three dimensional shapes, solids, projection systems and constructions derived from them		J
	3D solution	A solution to a specific or abstract problem derived and/or presented using 3D technique/s.		Geometric constructions			
		lines and planes in space. The grap	ription and analysis of relationships between points, hical representation of three dimensional objects in	Geometric principles			

lines and planes in space. The graphical representation of three dimensional objects in two dimensions.

together with the two dimensional and three dimensional shapes, solids, projection systems and constructions derived from them.



10

Evaluate: (ethical judgement) collect and examine evidence to make judgements and appraisals; 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 (graphically) use Illustrate: drawings to describe something Illustrate: use examples to describe something

Interpret: use knowledge and understanding to recognise trends and draw conclusions from given information

Interpret: (aesthetic) assign meaning to objects on the basis of observations and contextual knowledge; translate the effect of 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 characteristics 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

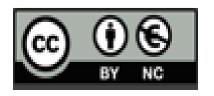
Understand: have and apply a well-organised body of knowledge

Use: apply knowledge or rules to put theory into practice; employ something in a targeted way

Visualise: make something visible to the mind or imagination something that is abstract or not visible or present to the eye

An tSraith Shóisearach do Mhúinteoirí





Consider the age, stage and prior learning of the students.

What learning do we want to focus on?

Explore both the strands and elements when choosing learning outcomes.

Ÿ

Identify the learning outcomes for your unit of learning.

Identify the key learning for students using action verbs to support your thinking.

Consider how we will assess and report evidence of learning





Develop ideas for how students could experience this learning.

How will I know they are learning?

Using your own classroom context, what methodologies and resources will support students in experiencing the learning outcomes.

Ű

Ensure assessment aligns with the learning outcomes and their action verbs

