ADVANCED HIGHER

GRAPHIC COMMUNICATION

STUDY & REVISION PACK

KINROSS HIGH SCHOOL

NAME _____

TEACHER _____

COMPUTER-AIDED DESIGN & DRAUGHTING **HOMEWORK** - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS **Topics** Information Gathered Knowledge and skills in applying: Recognised techniques, customs and practices across 3D modelling and 2D draughting software, including drawing and editing commands and terms Recognised techniques, Describe the use and benefits of the following 3D CAD techniques: customs and practices across 3D modelling and Morphing: 2D draughting software, including drawing and editing commands and terms. Standard 2D Extrusion along a path (sweeps): draughting commands including import and export. Regular and irregular fillets and chamfers: Standard 3D modelling techniques and including morphing, extrusion along a path (sweeps), regular and irregular fillets and chamfers, lofting, blending and surface modelling. Lofting, Blending: Techniques in the production of orthographic and pictorial work using computeraided design Solid and surface modelling (explain the difference between the two techniques) Solid Modelling: **Surface modelling:** (Explain the difference between surface and solid modelling)

Computer-aided Illustration **HOMEWORK** - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Information Gathered **Topics** Knowledge and skills in applying: Professional use of rendering technology to create scenes or illustrations with visual impact Including the use of List of CAD Illustration and lighting techniques: explain and describe texture mapping, the benefits of: bump-mapping, **Texture mapping:** lighting, reflection, specularity, ambience, depth-offield, Image Based Lighting/High **Bump-mapping:** Dynamic Range Imagery (IBL/HDRI) and volumetrics **Lighting techniques:** Reflection: **Specularity:** Ambience (ambient lighting): Depth-of-field: Image Based Lighting/High Dynamic Range Imagery (IBL/HDRI): **Volumetrics:**

Computer-aided design **HOMEWORK** - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Information Gathered **Topics CAD Techniques** The use of polygons in List of CAD Illustration techniques: explain and describe the benefits of: the production of 3D Use of polygons in the graphics, including production of 3D graphics. Boolean functions of add, subtract and intersect, slice. Boolean functions of add, subtract and intersect, slice: Sketch and annotate simple graphics which explain these Boolean operations Add: **Subtract:** Intersection: Slice:

Simulation		
HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
Topics	Information Gathered	
Simulation Knowledge and skills in the use of: • digital testing methods, eg Finite Element Analysis (FEA) or Computational Fluid Dynamics (CFD) to simulate how parts of a 3D model would perform if produced in reality, mechanical animation	Investigate and describe the benefits of the following simulation methods: Finite Element Analysis (FEA) What is it? How does it work?	
	What benefits does it provide?	
	Computational Fluid Dynamics (CFD) What is it?	
	How does it work?	
	What benefits does it provide?	

CAD/CAM SYSTEMS		
HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
Topics	Information Gathered	
CAD CAM systems Knowledge and skills in	Investigate and describe the benefits of the following CAD/CAM methods & techniques:	
the use of:	3D model manipulation to prepare for CAM production	
 3D model manipulation to prepare for CAM production communicating surface finish and 	What is it?	
datums • gathering model information on volume, centre of mass and mass of the model	How does it work?	
	Communicating surface finish and datums	
	What is it?	
	How does it work?	
	Gathering model information on volume, centre of mass and mass of the model. What is it?	
	How does it work?	

TECHNICAL GRAPHIC FILE FORMATS			
HOMEWOR	HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
Topics	Information Gathered		
Technical graphic file formats and their use Knowledge and skills in the use of:	Investigate and describe the benefits of the following CAD/CAM file formats: Standard Tessellation Language/stereo lithography file format (STL).		
 Standard Tessellation Language/stereo lithography file format (STL), Direct Exchange Format (DXF), Drawing Format (DWG), Virtual Reality Modelling Language 	What is special or different about this file? What is it used for?		
(VRML) and	Direct Exchange Format (DXF).		
• 3D Studio (3DS) files	What is special or different about this file?		
	What is it used for?		
	Drawing Format (DWG).		
	What is special or different about this file?		
	What is it used for?		

TECHNICAL GRAPHIC FILE FORMATS HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS **Topics** Information Gathered Technical graphic file Investigate and describe the benefits of the following CAD/CAM file formats: formats and their use Knowledge and skills in the use of: Virtual Reality Modelling Language (VRML). What is special or different about this file? Standard Tessellation Language/stereo lithography file format (STL), • Direct Exchange Format (DXF), What is it used for? • Drawing Format (DWG), Virtual Reality Modelling Language (VRML) and • 3D Studio (3DS) files 3D Studio (3DS) files. What is special or different about this file? What is it used for?

	Desktop Publishing
HOMEWORK - RE	SEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS
Topics	Information Gathered
Desktop publishing Knowledge and skills in the application of:	Consider two users (Audiences) of DTP and describe the benefits to them of DTP in printed media and/or electronic media.
• techniques, customs and	Describe the benefits of DTP in printed media and/or electronic media in general.
	Describe the benefits of DTP in printed media and/or electronic media for: User 1: A Fast food company requiring posters, menus, booklets and large scale in-store advertising materials.
	Describe the benefits of DTP in printed media and/or electronic media for: User 2: Sportswear company hoping to expand into a Scandinavian market place and requiring a web-site.

DESKTOP PUBLISHING - FILE TYPES HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Information Gathered Topic Investigate and describe the benefits of the following DTP file formats: Desktop publishing file **JPEG** formats and their use What is special or different about this file? Knowledge and understanding of: • JPEG, PNG, What is it used for? • BMP, PDF, AI, • WMV, AVI, • 3GP, PNG QuickTime file What is special or different about this file? formats What is it used for? **BMP** What is special or different about this file? What is it used for? PDF _____ What is special or different about this file? What is it used for?

DESKTOP PUBLISHING - FILE TYPES HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Topic Information Gathered Investigate and describe the benefits of the following DTP file formats: Desktop publishing ΑI file formats and What is special or different about this file? their use Knowledge and understanding of: What is it used for? JPG, • PNG, • BMP, PDF, WMV AI, What is special or different about this file? • WMV, AVI, 3GP, QuickTime file formats What is it used for? AVI ______ What is special or different about this file? What is it used for? 3GP ______ What is special or different about this file? What is it used for? Quicktime file formats What is special or different about this file? What is it used for?

	ESKTOP PUBLISHING- PRINTING TECHNOLOGIES
	PRK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS
Topics	Information Gathered
Commercial print media	Describe the special features of this process. Explain the types of printing jobs it is used for in terms of: Economy of print run size. Materials to be printed on, Print Quality, Printing speed
Print technologies Knowledge and understanding of: • various printing technologies,	Laser printing Main features
includingLaser,ink-jet,wide-format,	Economy of print run size
screen printing,offset lithography andsolid ink systems	Materials to be printed on
	Print Quality
	Printing speed
	Ink Jet Printers
	Main features
	Economy of print run size
	Materials to be printed on
	Print Quality
	Printing speed

DESKTOP PUBLISHING- PRINTING TECHNOLOGIES HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
	Information Gathered	
Topics	inioimation Gathered	
media Print technologies Knowledge and understanding of: • various printing technologies, including	Describe the special features of this process. Explain the types of printing jobs it is used for in terms of: Economy of print run size. Materials to be printed on, Print Quality, Printing speed Wide-format Printing Main features:	
 Laser, ink-jet, wide-format, screen printing, offset lithography and solid ink systems 	Economy of print run size:	
	Materials to be printed on:	
	Print Quality:	
	Printing speed:	

DESKTOP PUBLISHING- PRINTING TECHNOLOGIES Cont.. HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS **Topics** Information Gathered Describe the special features of this process. Explain the types of printing jobs it is used for in Commercial print terms of: Economy of print run size. Materials to be printed on, Print Quality, Printing speed media Screen printing, Print technologies Main features: Knowledge and understanding of: various printing technologies, including Economy of print run size: • Laser, • ink-jet, wide-format, screen printing, Materials to be printed on: offset lithography and • solid ink systems Print Quality: Printing speed: Offset lithography Main features: Economy of print run size: Materials to be printed on: Print Quality: Printing speed:

DESKTOP PUBLISHING- PRINTING TECHNOLOGIES Cont.. HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Information Gathered **Topics** Describe the special features of this process. Explain the types of printing jobs it is used for in Commercial print terms of: Economy of print run size. Materials to be printed on, Print Quality, Printing speed media Print technologies Knowledge and Solid ink systems understanding of: Main features: various printing technologies, including Laser, • ink-jet, • wide-format, screen printing, offset lithography and • solid ink systems Economy of print run size: Materials to be printed on: Printing speed:

DESKTOP PUBLISHING - PRINTING TECHNOLOGIES - COLOUR SYSTEMS HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS Topic Information Gathered Commercial print media Investigate and describe the benefits of the following colour standards: Print technologies Knowledge and Where is this standard applied? understanding of: quality and standards in colour printing, including an understanding of • RGB, • CMYK, and What are it's special features? Pantone edge-to-edge, bleed, gutter, registration marks, colour calibration, dots-per-inch (DPI) • photo-reduction, Duplexing, • camera-ready copy, СМҮК _____ (___) paper weight, • paper opacity, use of calendaring Where is this standard applied? for glossy print What are it's special features?

DESKTOP PUBLISHING - PRINTING TECHNOLOGIES - COLOUR SYSTEMS			
HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS			
Topic	Information Gathered		
Commercial print media	Investigate and describe the benefits of the following colour standards:		
Print technologies			
Knowledge and understanding of:	Pantone Where is this standard applied?		
quality and standards in colour printing, including an understanding of RGB, CMYK, and Pantone edge-to-edge, bleed, gutter, registration marks, colour calibration, dots-per-inch (DPI) photo-reduction, Duplexing, camera-ready copy, paper weight, paper opacity, use of calendaring for glossy print	What are it's special features?		

DESKTOP PUBLISHING - PRINTING TERMS		
HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
Topic	Information Gathered	
Commercial print media Print technologies Knowledge and understanding of:	Explain the following printing terms: use sketches where possible. Edge-to-edge printing	
quality and standards in colour printing, including an understanding of RGB, CMYK, and Pantone	Bleed	
 edge-to-edge, bleed, gutter, registration marks, colour calibration, dots-per-inch (DPI) photo-reduction, Duplexing, camera-ready 	Gutter Registration marks	
copy, • paper weight, • paper opacity, • use of calendaring for glossy print	Colour calibration	
	Dots-per-inch (DPI)	
	Photo-reduction	

DESKTOP PUBLISHING - PRINTING TERMS		
HOMEWORK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS		
Topic	Information Gathered	
Commercial print media Print technologies Knowledge and understanding of:	Explain the following printing terms: use sketches where possible. Duplexing	
quality and standards in colour printing, including an understanding of RGB, CMYK, and Pantone edge-to-edge, bleed, gutter, registration marks, colour calibration, dots-per-inch (DPI)	Camera-ready copy	
 photo-reduction, Duplexing, camera-ready copy, paper weight, paper opacity, use of calendaring for glossy print 	Paper weight	
	Paper opacity	
	Use of calendaring for glossy print	

HOMEWOR	RK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS
Topic	Information Gathered
	Investigate and describe the benefits of the following digital animation techniques:
Animation Knowledge, understanding of, and	Creation of animated graphics making use of:
application as required of: • creation of	Motion-capture:
animated graphics making use of motion-capture, stop-frame, or	
motion tweening	
 post-editing of video files and use of video graphic 	
technologies, including	
blend/fade, zoom, transition and overlays	Stop-frame animation:
	Motion tweening:

	RK - RESEARCH THE TOPICS LISTED BELOW AND WRITE CONCISE DESCRIPTIONS
Topic	Information Gathered
nimation Knowledge	Investigate and describe the benefits of the following digital animation techniques: Post-editing of video files and use of video graphic technologies, including: Blend/fade
 post-editing of video files and use of video graphic technologies, including blend/fade, zoom, transition and overlays 	
	Zoom
	Transition
	Overlays

TECHNICAL GRAPHICS - Graphic Types & Techniques

REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH		
Topics	Information Gathered	
Graphic Types	Knowledge, understanding and skills in interpreting audience requirements and producing effective graphic responses for: preliminary, production and promotional graphics.	
Preliminary: Planning (Gantt charts) manual sketching, illustration.	Write briefly, describing the Audiences, Purpose and Benefits of: Planning (Gantt charts) Purpose:	
	Audience:	
	Benefits:	
	Manual Sketching	
	Purpose: Audience:	
	Benefits:	
	Illustrations Purpose:	
	Audience:	
	Benefits:	

TECHNICAL GRAPHICS - Graphic Types & Techniques REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH **Topics** Information Gathered Knowledge, understanding and skills in interpreting audience **Graphic Types** requirements and producing effective graphic responses for: preliminary, production and promotional graphics. **Production Graphics:** Write briefly describing the Audiences, Purpose and Benefits of: CAD, orthographic **CAD Production drawings:** projection, pictorials, dimensional Audience: Engineer, assembly technician. Tolerances. Purpose: Benefit: **Orthographic Projection:** Audience: Engineer, Building Contractor. Purpose: Benefit: **Pictorial drawings:** Audience: Client, advertising team, interior designer. Purpose: Benefit: **Dimension Tolerances** Audience: Manufacturer, fitters (trades), construction trades. Purpose: Benefit:

TECHNICAL GRAPHICS - Graphic Types & Techniques REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH **Topics** Information Gathered Knowledge, understanding and skills in interpreting audience **Graphic Types** requirements and producing effective graphic responses for: preliminary, production and promotional graphics. **Promotion: Creative** Write briefly describing the Audiences, Purpose and Benefits of: layout techniques, **Creative layout techniques:** Interactive screens, web sites. Interactive screens: Web sites: General benefits of a website to an audience include: Advantages to a company include:

TECHNICAL GRAPHICS - Graphic Types & Techniques

REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH

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Topics	Information Gathered
Graphic Techniques	Skills, knowledge and application of: creative techniques when using graphic instruments or devices, and a range of graphics media.
Use of 3D CAD, Animation, 3D Printing, CNC applications	Write briefly describing the Audiences, Purpose and Benefits of: 3DCAD Audiences: Designers (product, interior,landscape etc), Architects, Engineers (mechanical, civil,naval etc), Bio-medical industry (prosthetics, dentistry etc) Games Industry. Clients. Purpose: Benefits:
Key Issues Orientation of model Scaffolding Use of fillets and Chamfers Quality of finish Rafting Use of webs Solid v's Hollow Filetypes stl	3D Printing Audiences: Product Designers, Architects, Engineers (mechanical, automotive, aerospace etc) Biomedical industry (prosthetics, dentistry etc) . Fashion designers. Purpose: Benefits: CNC Applications (Simulation) Audiences: Designers and manufacturers who use subtractive (cutting) methods to manufacture components. (Eg. Laser or Vinyl Cutters, Routers).
Key Issues Orientation Setting Datums Billet size Tool selection Clearances Tool paths Surface finish	Purpose: Benefits:
Key Issues Stop Frame versus Motion Tweening /Keyframe Motion Capture Movie File types wmv moviemov moviemov moviemov Morphing	Animation Audiences: Medical professionals or their patients. Forensic scientists. Architecture clients. Teachers and learners. Product designers and engineers. Purpose: Benefits:

Drawing Standards, Protocols and Conventions REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH Information Gathered **Topics** Knowledge and skills in applying: Recognised standards, protocols and conventions in engineering and construction drawings, including line types, symbols for sections, including stepped sections according to context, display variances in use of scale, detail, layout, measurement, layering functions, materials and symbols, tolerances. Write briefly describing the Audiences, Purpose and Benefits of: Standards, Standards, Conventions and Protocols in engineering and construction drawing: protocols and conventions in engineering and construction drawings, including line types, materials and symbols. Write briefly describing the Audiences, Purpose and Benefits of Sections and Sections and **Stepped sections** in engineering and construction drawing: stepped sections According to Write briefly describing the: Audiences, purpose and benefits of: scaling, tolerances and layering in engineering and construction drawings: context, display Scaling: variances in use of scale, detail, layout, measurement, and layering **Tolerances:** functions Layering:

Built Environment REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH Information Gathered **Topics** Creators and users Creators and users -Select two creators and two users and describe the types of graphics and the types Knowledge and of graphic technologies they require in order to carry out their work. understanding of the Creator 1: Architect roles and needs of Designs buildings ranging from small house extensions to large public buildings like schools, designers, architects, theatres and hospitals architectural technicians, landscape Graphic types required: architects, construction trades, building surveyors, Graphic Technologies required: quantity surveyors, consultant engineers, town planners, **User 1: Construction trades** conservation bodies, Graphic types required: communities, model makers, interior designers, suppliers, production and planning, prospective **Creator 2: Building surveyors** purchasers and Measures sites and buildings to give an accurate representation of existing sites and members of the structures. They may also investigate the structural condition (rot, cracks, subsidence) and general public. fabric (water ingress, roof condition, external walls) of an existing building. Graphic types required: Graphic Technologies required: **User 2: Conservation bodies** Graphic types required: Graphic types required: **Creator 3: Consultant Engineers:** Graphic types required: Graphic Technologies required:

Built Environment REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH Topics Information Gathered Creators and users Creators and users -Select one creator and one user and describe the types of graphics and the types of Knowledge and graphic technologies they require in order to carry out their work. understanding of the Creator 4: Interior designer roles and needs of Responsible for the interior design of a building, including colour schemes, tiling, wall paper, designers, architects, paintwork, soft furnishings and sometimes lighting. architectural technicians, landscape Graphic types required: architects, construction trades, building surveyors, quantity surveyors, consultant engineers, town planners, conservation bodies, Creator 5: Production and planning communities, model Production: detailed construction information (drawings and schedules) in order to assemble a makers, interior building. Planning: the creation of Gantt charts (usually by an Architect) to plan out the stages designers, suppliers, of construction. production and Graphic types required: planning, prospective purchasers and members of the general public. Creator 6: Architectural Technicians Will produce orthographic drawings of buildings and/or parts of buildings at varying scales from 1:200 to 1:5. They will mainly produce plans and sections that detail the construction of walls, floors and the roof and the junctions between these features. The primary role of a technician is to ensure compliance with building regulations. This means understanding the minimum size requirements for all manner of building features from disabled toilets to corridor widths to the spacing of fire dampeners in wall construction and ensuring adequate ventilation for the size of room. Technicians do not normally have any involvement with building design. Floorplans of buildings / rooms to show layout, positions of doors, windows, power sockets, light switches, plumbing and heating fittings. Elevations of Buildings showing external details, finishings, cross sections showing wall construction details. Graphic technologies required **User 3: Prospective purchasers:** Graphic types required:

Built Environment		
REVISION MATER	IIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH	
Topics	Information Gathered	
Creators and users		
designers, architects.	Select one creator and one user and describe the types of graphics and the types of graphic technologies they require in order to carry out their work. Creator 7: Quantity Surveyor Graphic Types required:	
town planners, conservation bodies, communities, model makers, interior designers, suppliers, production and	Graphic Technologies required:	
	User 4: Suppliers Graphic Types required: Produce highly technical graphic information to communicate how their product, i.e. a window system, is manufactured and can be constructed. Will produce 3D CAD models to communicate how components fit together along with detailed 2D production drawings to inform the manufacture of their product. Will also work with Architects and engineers to design bespoke components. Will produce details at a scale of 1:10 to 1:2 showing how their product or system is constructed and can be installed. Graphic Technologies required:	
	User 5: Town planners Graphic Types required:	
	Graphic Technologies required:	

Built Environment REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH Information Gathered **Topics** Creators and users Creators and users -Select one creator and one user and describe the types of graphics and the types of Knowledge and graphic technologies they require in order to carry out their work. understanding of the roles and needs of Drawings are usually received physically in packages which are then scanned in to a computer designers, architects, system and uploaded onto a planning portal website for the public to view and comment on. architectural technicians, landscape | Creator 8: Building Surveyors architects, Graphic Types required: construction trades, Measure sites and buildings to give an accurate representation of existing sites and structures. building surveyors, They may also investigate the structural condition (rot, cracks, subsidence) and fabric (water quantity surveyors, ingress, roof condition, external walls) of an existing building. Produces measured drawings consultant engineers, (plans and elevations) of existing buildings and sites prior to any design or construction, town planners, usually to a specification dictated by an Architect or client. The scale, level of detail and conservation bodies, content of the survey depends upon the specification. Typically, detail is drawn at a scale of communities, model 1:50 to 1:100 for building information and 1:200 to 1:500 for site information. makers, interior designers, suppliers, Graphic technologies required: production and planning, prospective purchasers and members of the general public. **User 6: Communities** Graphic Types required: Consulted with to give input into new developments. May be invited to attend consultation events whereby developers and some members of the design team, principally architects, present drawings depicting what a new development is going to look like and how it is going to impact upon the local community. Drawings are typically those used for planning purposes (location and site plans, building plans, elevations and rendered visuals produced from 3D CAD models). Graphic Technologies required: Creator 9: Model makers: Makes physical scale models of proposed building designs which are typically made from card, wood, mount board, plastics. May also build 3D CAD models and create physical models viarapid prototyping. Graphic types required:

	Built Environment	
REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH		
Topics	Information Gathered	
Creators and users		
Creators and users - Knowledge and understanding of the roles and needs of designers, architects, architectural	Select one creator and one user and describe the types of graphics and the types of graphic technologies they require in order to carry out their work. Creator 10: Production Engineer Graphic Types required: Freehand sketches, initial computer sketches, initial computer models, 3D computer models, Manual drawings (drawing board), Orthographic drawings (assembled and parts), Technical detail drawings (sections etc), FEA Analysis, Exploded pictorial drawings, 3D prints, Animations, Flow diagrams, Parts lists, Model plans, tolerances, material details, systems diagrams, operation diagrams, instruction manuals, safety signage. Graphic technologies required:	
	Creator 11: The General public Graphic Types required: Promotional materials such as brochures, leaflets, instructions, adverts, magazines, posters. Digital media such as Websites, digital publications, digital instructions, CD covers, DVD covers, Packaging, Logos, signage, digital applications, Digital interfaces, physical interfaces, wayfinding, animation, animated films, entertainment Graphic technologies required:	

Built Environment

Topics	Information Gathered		
Planning drawing: (nowledge of the use of: electrical drawings,	Investigate and prepare brief notes on the following planning drawings: Who will produce them, who might use them, what content do they have and how are they produced.		
plumbing drawings, drainage surveys, underground surveys — storm water, foul water, services, gas, electric and telecommunications • feature surveys; textile paving, seating, lighting • topological surveys; standards, layout and use	Electrical drawings:		
	Drainage surveys:		
	Topographical Surveys:		

Manufacturing and engineering			
REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH			
Topics	Information Gathered		
Manufacturing and engineering Creators and users - Knowledge and understanding of the roles and needs of: • designers, consultants • engineering trades (civil, structural, electrical, mechanical, structural, systems) • manufacturers, fabricators, • model makers, test labs, materials technologists, • specification engineers, • Suppliers, • production and planning. Use Galactic and Structural	Select one creator and one user and describe the types of graphics and the types of graphic technologies they require in order to carry out their jobs. Ser 1 Heating Engineer iraphic types required and their purpose: De Pictorial of gas / water pipe runs to show position of main inlets and outlets for vater and sewage. CFD data showing optimal positions of radiators. Siraphic Technologies required and their purpose: De Renderings of proposed room layouts to show positions of furniture, doors, fixtures and fittings. Floor plans, Graphic Technologies required and their purpose:		

TECHNICAL GRAPHICS - CREATORS and USERS

REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH

Knowledge and understanding of the roles and needs of those who may encounter, use, draw, read or explain any form of technical, engineering or production drawing. Describe the roles of the following professionals and describe the graphic types the use and/or produce:

8. ap cypes and ac	, ,
Design engineer/ Industrial Designer	
Manufacturing	
engineer	

TECHNICAL GRAPHICS - CREATORS and USERS

Knowledge and understanding of the roles and needs of those who may encounter, use, draw, read or explain any form of technical, engineering or production drawing. Describe the roles of the following professionals and describe the graphic types the use and/or produce:

are grapine types the us	
Assembly Technician	

TECHNICAL GRAPHICS - CREATORS and USERS

REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH

Knowledge and understanding of the roles and needs of those who may encounter, use, draw, read or explain any form of technical, engineering or production drawing. Describe the roles of the following professionals and describe the graphic types the use and/or produce:

Conformance/ Compliance Technician or Engineer		
Model Maker		
Test engineer		
J		

COMMERCIAL and VISUAL MEDIA - COMMON ELEMENTS

REVISION MATERIAL - MAKE NOTES FROM YOUR EXPERIENCES IN THE COURSE OR FROM RESEARCH

Topics	Information Gathered
Common elements to commercial and visual media graphics Creators and users - Knowledge and understanding of the roles and needs of:	Select one creator and one user and describe the types of graphic and the types of graphic technologies they require in order to carry out their jobs. Creator 1: Graphic Designer Graphic types required and their purpose:
	Graphic Technologies required and their purpose:
	Creator 2 Advertising designer Graphic types required and their purpose:
	Graphic Technologies required and their purpose:
	User 1: Retailers Graphic types required and their purpose:
	Technologies and their purpose: