Puzzle cube

Grade Level/s: 4, 5, 6, 7
Subject/s: Mathematics, Technologies
Type: Unit Plan
Author: Jade Watson

Puzzle cube
Students are learning about 2D shapes and 3D shapes. They are problem solving and working out how many cubes fit into a cube net. As an extension students design puzzle pieces that are joined to make larger shapes. All shapes need to fit into the cube.

Single Lesson Plan

Puzzle cube

Task: Activity: Resources:

Downloadable files

Learning_Design_six_steps_horizontal_worksheet_cube.docx
(/download/lesson_plan_attachments/files/000/000/106/original/Learning_Design_six_steps_horizontal_worksheet_cube.docx?1494557506)

Curriculum
South Australian TIEL:
2.4 challenge students to achieve high standards with
3.4 promote dialogue as a means of learning
4.4 communicate learning in multiple modes

Australian Curriculum:
Using Different Peripheral Devices To Display Information To Others, For Example Using A Mobile Device, Interactive Whiteboard Or A Data Projector To Present Information (ELBT177)
link (http://rdf.australiancurriculum.edu.au/elements/2014/09/85c37ddf-7ba6-4054-a96d-a8379f2e0c60)
Experimenting With Different Types Of Digital System Components And Peripheral Devices To Perform Input, Output And Storage Functions, For Example A Keyboard, Stylus, Touch Screen, Switch Scan Device Or Joystick To Input Instructions; A Monitor, Printer Or Tablet To Display Information; A Usb Flash Drive And External Hard Drive As Storage Peripheral Devices (ELBT83)
Using Features And Functions Of Software To Summarise Data To Create Information, For Example Calculating A Simple Budget Of Income And Payments And Creating A Summary Table For Analysis (ELBT395)
Describing And Using Safety Guidelines For Food Storage And Preparation At Home And School, For Example Use And Care Of Chopping Boards; Methods Of Preparing And Storing Fruits And Vegetables To Ensure Optimum Quality And Nutrient Content (ELBT419)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/dff5e76d-7cbe-49ef-8990-b5944b70258c)

Experimenting With Tools, Equipment, Combining Ingredients And Techniques To Design And Make Food Products Or Meals For Selected Groups For Healthy Eating Taking Into Consideration Environmental Impacts And Nutritional Benefits (ELBT182)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/05fe8df5-090e-40b4-93b6-2ee8b2d64005)

Considering Traditional And Contemporary Methods Of Food Preparation Used In A Variety Of Cultures, Including Aboriginal And Torres Strait Islander Methods (ELBT76)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/f367e695-32a2-450a-9315-9c09df08565d)

Identifying Work Practices That Show An Understanding Of Nutrition, Environmental Considerations, Hygiene And Food Safety When Designing And Making A Food Product, For Example Washing Fruit And Vegetables Carefully To Remove Residues, Safe Disposal Of Cooking Oils To Avoid Environmental Damage, Refrigerated Storage Of Highly Perishable Foods (ELBT221)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/d05d091f-ae16-4f63-b88c-c466767ca234)

Identifying The Properties Of Materials For The Design And Construction Of A Sustainable Household Item, For Example A Product For Storing Harvested Water (ELBT301)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/6d554af7-6321-400c-8f42-4ab446d46699)

Evaluating The Functional Properties Of A Specific Purpose Household System, For Example A Security System (ELBT349)


Examining The Materials And Systems Used In A Public Use System That Affect The Way People Live, For Example A Community Exercise Environment Or Arts Facility, Water Treatment, Garbage Collection (ELBT189)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/c02d21df-090a-4c58-8ab2-3bee6d7f477e)

Comparing Tools, Equipment And Techniques To Select Those Most Appropriate For A Given Purpose (ELBT426)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/5b7233cf-4f4b-4bf5-aeb0-26b53d6424cd)

Evaluating The Use Of Computer Aided Manufacturing In Terms Of Cost And Impacts On Local And Regional Designers, Producers And Enterprises (ELBT338)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/c0a3e511-a5eb-4e0e-b9ff-556b227b4773)

Comparing The Design And Production Of Products, Services And Environment As In Australia And A Country In Asia The Region (ELBT78)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/36f3a3ef-4b50-4af4-9535-fba386f9cb48)

Investigate how people in design and technologies occupations address competing considerations, including sustainability in the design of products, services and environments for current and future use (ACTDEK019)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/a62427c6-b36b-4d45-bd8d-99665c9d894e)

Investigate how forces or electrical energy can control movement, sound or light in a designed product or system (ACTDEK020)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/523cc5f5-8671-493b-8f57-4ab7277f432e)

Investigate how and why food and fibre are produced in managed environments (ACTDEK021)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/87f5cc7d-5f6b-4fb7-9e1f-6e4403b3)

Investigate the role of food preparation in maintaining good health and the importance of food safety and hygiene (ACTDEK022)


Investigate characteristics and properties of a range of materials, systems, components, tools and equipment and evaluate the impact of their use (ACTDEK033)


Exploring The Steps Involved In The Process To Satisfy A Design Brief, Need Or Opportunity (ELBT334)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/5a02564a-9597-46fd-b438-ee1fc74f9c9c)

Investigating Designed Solutions From Around The World To Make Suitable, Quality Decisions That Meet The Design Brief, Challenge Or Scenario (ELBT97)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/9f457f6c-4a4a-46e3-9526-cf522bbddc8a)

Identifying The Importance Of Complementary Parts Of Working, Everyday Systems By Deconstructing The Components, Structure And Purpose Of Products, Services And Environment As In Australia The Region (ELBT409)


Testing A Range Of Materials, Components, Tools And Equipment To Determine The Appropriate Technologies Needed To Make Products, Services Or Environments, For Example A Moving Vehicle (ELBT376)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/179565a4-b19f-4070-ab36-433928ab0c00)

Investigating How To Minimise Material Use And Manage Waste By Critiquing The Environmental And Social Impacts Of Materials, Components, Tools And Equipment, For Example A Food Product (ELBT719)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/5e4ba89d9-1297-47bc-b70a-9f9d32be0b8b)

Generating A Range Of Design Ideas For Products, Services Or Environments Using Prior Knowledge, Skills And Research (ELBT408)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/0ecz70b4c-4d10-4c7f-9e22-2fe8ac3055fd)

Developing Alternative Design Ideas And Considering Implications For The Future To Broaden The Appeal And Acceptance Of Design Ideas (ELBT200)


Analysing And Modifying Design Ideas To Enhance And Improve The Sustainability Of The Product, Service, Environment Or System (ELBT565)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/0594dc6c-46f6-a4c2-ad2a-4f792878e0ea)

Representing And Communicating Design Ideas Using Modelling And Drawing Standards Including The Use Of Digital Technologies, For Example Scale, Symbols And Codes In Diagrams, Pictorial Maps And Aerial Views Using Web Mapping Service Applications (ELBT364)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/1b45777b-3ae1-e00e-80ed-4876549f84f2)

Experimenting With Materials, Tools And Equipment To Refine Design Ideas, For Example Considering The Selection Of Materials And Joining Techniques To Suit The Purpose Of A Product (ELBT627)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/a8b97f57-6c0a-4870-93d0-78efe9a957b7)

Matching Material And Joining Techniques To The Design Intention, For Example Accurately Cutting And Sewing The Fabric Pieces To Make A Community Banner Or Joining Components To Produce An Electric Circuit (ELBT598)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/883415ca-a299-40f5-abe0-378f0c21759)

Working Safely, Responsibility And Cooperatively To Ensure Safe Work Areas, For Example The Safe Use Of Equipment When Mold Making, Floating Craft Or A Model Of An Environmentally Sensitive Outdoor Shelter (ELBT27)

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/7bdf6f9d-2c5d-45d9-8c5d-2f1f157c7db6)

Using Appropriate Personal Protective Equipment Required For The Use Of Some Tools And Equipment, For Example Protective Eyewear (ELBT68)

New Materials, Control Systems And Biomimicry, For Example The Development Of Velcro (ELBT465)

Evaluating The Suitability Of Materials, Tools And Equipment For Specific Purposes (ELBT176)

Evaluating Products, Services And Environments From A Range Of Technologies Contexts With Consideration Of Ethics And Sustainability (ELBT324)

Examining The Essential Features Of Existing Processes To Inform Project Planning Including Safe Work Practices That Minimise Risk (ELBT225)

Setting Milestones For Production Processes And Allocating Roles To Team Members (ELBT248)

Identifying When Materials, Tools And Equipment Are Required For Making The Solution (ELBT55)

Outlining The Planning And Production Steps Needed To Produce A Product, Service Or Environment Using Digital Technologies (ELBT143)

Negotiate for success that include consideration of sustainability to evaluate design ideas, processes and solutions (ACTDEP027)

Design and Technologies Knowledge and Understanding (ELBT39)

Design and Technologies Processes and Production Skills (ELBT228)

Years 5 And 6 Achievement Standard

Analysing Manipulating Materials With Appropriate Tools And Techniques, For Example When Preparing Food, Cultivating Garden Beds, Constructing Products (ELBT357)

Independently And Collaboratively Identifying Criteria For Success, Processes And Planning, For Example Using Visual Representations Such As A Flowchart (ELBT297)

Refocusing On How Well Their Designed Solutions Ensure Safety And Wellbeing Of Users And Consumers And Meet The Needs Of Communities And Different Cultures (ELBT437)

Considering The Criteria For Success In Relation To The Benefits And Costs Of Production Processes, The Environmental Impact, Future Use And Application, And Social Values And Ethics Of Their Clients (ELBT443)

Evaluating The Impact And Long-term Potential Of Their Designed Solutions (ELBT328)

Considering Factors That Influence The Selection Of Appropriate Materials, Components, Tools And Equipment To Make Designed Solutions (ACTDEP026)

Designing And Building A Prototype For A Product, Service Or Environment Using Digital Technologies (ELBT138)

Evaluating The Suitability Of Materials, Tools And Equipment For Specfic Purposes (ELBT176)

Considering The Rights And Responsibilities Of Those Working In Design And Technologies Occupations, For Example Home Entertainment, Communications Or Food Packaging (ELBT305)

Investigating The Ethics Of Using Surveillance Systems While Balancing Privacy, Security And Safety Concerns (ELBT73)

Evaluating The Suitability Of Materials, Tools And Equipment For Specific Purposes (ELBT176)

Linking The Use And Development Of Technologies For Navigating Unfamiliar Environments, For Example A Service To Help Tourists Engage With A Heritage Area (ELBT352)

Investigating Traditional And Contemporary Design And Technologies, Including From Asia, And Predicting How They Might Change In The Future In Response To Factors Such As Social Change And The Need For More Sustainable Patterns Of Living (ELBT389)

Identifying Needs And New Opportunities For Design And Enterprise, For Example Promotion And Marketing Of Designed Solutions (ELBT490)

Investigating How Developments In Materials, Tools And Equipment Influence Designed Solutions (ELBT141)

Investigating Influences Impacting On Manufactured Products And Processes Such As Historical Developments, Society, New Materials, Control Systems And Biomimicry, For Example The Development Of Velcro (ELBT465)
solutions for healthy eating (ACTDEK033) Analyse how characteristics and properties of food determine preparation techniques and presentation when designing sustainable (ACTDEK032)

Simple, engineered solutions (ACTDEK031) Analyse ways to produce designed solutions through selecting and combining characteristics and properties of materials, systems, components, tools and equipment (ACTDEK034)

Comparing Land And Water Management Methods in Contemporary Australian Food And Fibre Production with Traditional Aboriginal Systems and Countries of Asia, For example Minimum Tillage Cropping, Water Efficient Irrigation (ELBT310)

Investigating Components, Tools And Equipment For Example Testing The Durability Of Batteries, Determining The Effective Range Of Wireless Devices (ELBT32)

Recognising The Need To Increase Food Production Using Cost Efficient, Ethical And Sustainable Production Techniques (ELBT216)

Describing Physical And Chemical Characteristics Of Soil And Their Effects On Plant Growth When Producing Food And Fibre Products (ELBT450)

Investigating Different Animal Feeding Strategies Such As Grazing And Supplementary Feeding, And Their Effects On Product Quantity. For example Meat Tenderness, Wool Fibre Diameter (Micron), Milk Fat And Protein Content When Producing Food And Fibre Products (ELBT24)

Investigating The Importance Of Food And Fibre Production To Australia's Food Security And Economy Including Exports And Imports To And From Asia When Critiquing And Exploring Food And Fibre Production (ELBT39)

Planning And Making Quality, Safe And Nutritious Food Items, Using A Range Of Food Preparation Tools, Equipment And Techniques (ELBT535)

Examining The Relationship Between Food Preparation Techniques And The Impact On Nutrient Value, For Example Steaming Vegetables (ELBT279)

Investigating How A Recipe Can Be Modified To Enhance Health Benefits, And Justifying Decisions, For Example By Replacing Full Cream Milk with Skim Milk (ELBT345)

Assessing Food Preparation Techniques Used In Different Cultures Including Those From The Asia Region And The Impact Of These On Nutrient Retention, Aesthetics, Taste And Palatability, For Example Stir Frying (ELBT157)

Explaining How Food Preparation Techniques Impact On The Sensory Properties (Flavour, Appearance, Texture, Aroma) Of Food, For example The Browning Of Cut Fruit, The Absorption Of Water When Cooking Rice (ELBT447)

Investigating Dierent Animal Feeding Strategies Such As Grazing And Supplementary Feeding, And Their Effects On Product Quantity. For example Meat Tenderness, Wool Fibre Diameter (Micron), Milk Fat And Protein Content When Producing Food And Fibre Products (ELBT24)

Investigating Aspects Of Technologies Specialisations, For Example In Architecture, Critiquing The Design Of An Existing Building To Identify Features Of Passive Design Or In Fashion, Evaluating The Sustainability Of Different Fibres (ELBT441)

Investigating And Selecting From A Broad Range Of Technologies – Materials, Systems, Components, Tools And Equipment – When Designing For A Range Of Technologies Contexts (ELBT203)

Comparing Land And Water Management Methods in Contemporary Australian Food And Fibre Production with Traditional Aboriginal Systems and Countries of Asia, For example Minimum Tillage Cropping, Water Efficient Irrigation (ELBT310)

Investigating Environmental Changes That Have Been Designed In Consultation With Community Groups, For Example A Bush Tucker Community Garden Developed In Consultation With Local Elders (ELBT16)

Examining and prioritise competing factors including social, ethical and sustainability considerations in the development of technologies and designed solutions to meet community needs for preferred futures (ACTDEK029)

Investigating the ways in which products, services and environments evolve locally, regionally and globally through the creation, innovation and enterprise of individuals and groups (ACTDEK030)

Analyse how food and fibre are produced when designing managed environments and how these can become more sustainable (ACTDEK032)

Analyse how characteristics and properties of food determine preparation techniques and presentation when designing solutions for healthy eating (ACTDEK033)

Analyse ways to produce designed solutions through selecting and combining characteristics and properties of materials, systems, components, tools and equipment (ACTDEK034)
Design and Technologies Knowledge and Understanding

link (http://rdf.australiancurriculum.edu.au/elements/2014/09/6b74b70e-7014-4f1f-a99b-c8803b84c321)

Experimenting With Traditional and Contemporary Technologies When Developing Designs, And The Advantages And Disadvantages Of Each Approach (ELBT130)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/f6af65f6-9224-46a6-9b30-3a26ec2591c5)

Investigating Emerging Technologies And Their Potential Impact On Decision Desisions, For Example Flame Retardant Fabrics Or Smart Materials Such As Self Healing Materials, Digital Technologies And Agriculture (ELBT103)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/8f397e-8e42-4e70-95cd-ccb4b797fd47)

Examining, Testing And Evaluating A Variety Of Suitable Materials, Components, Tools And Equipment For Each Design Project, For Example The Differences Between Natural Hardwood And Plantation Softwood Timbers, Which Determine Their Suitability For Particular Uses Related To Durability, For Example Interior Or Exterior Use (ELBT224)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/95904c1d-41b4-4dbb-9ed0-8a55df84f245)

Evaluating The Viability Of Using Different Techniques And Materials In Remote, Isolated Areas, Or Less Developed Countries (ELBT194)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/8f240c2b-3f2e-4365-a014-9c5d4a06b2f1)

Selecting Appropriate Materials To Acknowledge Sustainability Requirements By Using Life Cycle Thinking (ELBT280)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/5e0f3031-7f35-4999-96a7-727132eb20c0)

Using A Variety Of Critical And Creative Thinking Strategies Such As Brainstorming, Sketching, 3D Modelling And Experimenting To Generate Innovative Design Ideas (ELBT339)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/cbbf944c-887b-4c02-9429-543dcd3b4c86)

Considering Which Ideas To Further Explore And Investigate The Benefits And Drawbacks Of Ideas, For Example Using Digital Polling To Capture The Views Of Different Groups In The Community (ELBT1729)


Identifying Factors That May Hinder Or Enhance Project Development, For Example Intercultural Understanding (ELBT460)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/b25e1046-67a4-4097-9289-1ef8be47c8d8)

Developing Models, Prototypes Or Samples Using A Range Of Materials, Tools And Equipment To Test The Functionality Of Ideas (ELBT1718)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/15803f3f-29be-4dfb-8e87-a3b28b4425f9)

Producing Annotated Concept Sketches And Drawings, Using: Technical Terms, Scale, Symbols, Pictorial And Aerial Views To Draw Environments; Production Drawings, Orthogonal Drawings; Patterns And Templates To Explain Design Ideas (ELBT373)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/2a4267a7-6b19-4d7b-99f9-43be4f994d40)

Documenting And Communicating The Generation And Development Of Design Ideas For An Intended Audience, For Example Developing A Digital Portfolio With Images And Text Which Clearly Communicates Each Step Of A Design Process (ELBT296)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/84a0a2b7-cc3a-479f-bb46-6905260cb200)

Developing Technical Production Skills And Safe Working Practices With Indepedence To Produce Quality Solutions Designed For Sustainability (ELBT277)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/9aa3a439-c7d4-4628-859a-731bca5f7c2e)

Practising Techniques To Improve Expertise, For Example Handling Animals, Cutting And Joining Materials (ELBT439)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/9f77d219-1a5a-4df6-978b-1e068f5bf9a0)

Identifying And Managing Risks In The Development Of Various Projects, For Example Working Safely, Responsibly, Cooperatively And Ethically On Design Projects, Assessing Uncertainty And Risk In Relation To Long Term Health And Environmental Impacts (ELBT432)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/6070892e-942c-4a3b-8e08-2449a2908725)

Developing Innovative Ways Of Manipulating Technologies Using Traditional And Contemporary Materials, Components, Tools, Equipment And Techniques And Considering Alternatives Including Emerging Technologies That Could Be Substituted To Reduce Waste Or Time (ELBT313)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/7b6578b6-2d0c-459e-8528-ef5132769a28)

Developing Criteria For Success To Assess The Success Of Designed Solutions In Terms Of Aesthetics, Functionality And Sustainability (ELBT192)


Considering How To Improve Technical Expertise (ELBT273)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/430a8033-0650-413a-9a7f-747ac62122ab)

Evaluating Designed Solutions And Processes And Transferring New Knowledge And Skills To Future Design Projects (ELBT38)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/28942734-e9f2-4ab5-8fe1-d6f870e885d)

Explaining And Interpreting Drawings, Planning And Production Steps Needed To Produce Products, Services Or Environments For Specific Purposes (ELBT54)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/29c3085a-5a55-499b-8a9d-e67f4a282c3c)

Organising Time, Evaluating Decisions And Managing Resources To Ensure Successful Project Completion And Protection Of The Work Space And Local Environment (ELBT86)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/b1f03af1-a5e3-403f-e8a0-d7ca4e9b911d)

Identifying Risks And How To Avoid Them When Planning Production (ELBT475)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/9223f32-357b-4ac4-bac0-086b56d3a2d0)

Investigating The Time Needed For Each Step Of Production (ELBT11)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/af74b7f3-536b-42bc-a7ed-5fbc78947ca6f)

Critique needs or opportunities for designing and investigate, analyse and select from a range of materials, components, tools, equipment and processes to develop design ideas (ACTDEP035)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/9f1b8002-7158-47fe-a24b-b6f0aa27804d)

Generate, develop, test and communicate design ideas, plans and processes for various audiences using appropriate technical terms and technologies including graphical representation techniques (ACTDEP036)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/c40bddd3-4e27-466b-ba42-7048f5262731)

Effectively and safely use a broad range of materials, components, tools, equipment and techniques to make designed solutions (ACTDEP037)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/c66daa6f-72ff-4c7e-aef1-65f238e7720c)

Independently develop criteria for success to assess design ideas, processes and solutions and their sustainability (ACTDEP038)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/8cd20ac6-629b-492a-9ab4-217842eb108)

Use project management processes when working individually and collaboratively to coordinate production of designed solutions (ACTDEP039)

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/bf5f5b40-2dcd-42cb-b334-9f8e958df5c)

Design and Technologies Knowledge and Understanding

link (http://rfc.australiancurriculum.edu.au/elements/2014/09/89b7f7ae-4c7b-4756-9828-42fc2e9c86d)
Comparing Areas Using Metric Units, Such As Counting The Number Of Square Centimetres Required To Cover Two Areas By Overlaying The Areas With A Grid Of Centimetre Squares (ELBM154)

Identifying Common Two Dimensional Shapes That Are Part Of A Composite Shape By Re Creating It From These Shapes (ELBM155)

Creating A Two Dimensional Shapes From Verbal Or Written Instructions (ELBM156)

Compare the areas of regular and irregular shapes by informal means (ACMMG087)

Compare and describe two dimensional shapes that result from combining and splitting common shapes, with and without the use of digital technologies (ACMMG088)

Shape

Achievement Standard

Identifying The Shape And Relative Position Of Each Face Of A Solid To Determine The Net Of The Solid, Including That Of Prisms And Pyramids (ELBM193)

Representing Two Dimensional Shapes Such As Photographs, Sketches And Images Created By Digital Technologies (ELBM194)

Connect three-dimensional objects with their nets and other two-dimensional representations (ACMMG111)

Designing A School Or Brand Logo Using Transformation Of One Or More Shapes (ELBM524)

Understanding That Translations, Rotations And Reflections Can Change The Position And Orientation But Not Shape Or Size (ELBM525)

Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies (ACMMG142)

Using Aerial Views Of Buildings And Other 3 D Structures To Visualise The Structure Of The Building Or Prism (ELBM277)

Draw different views of prisms and solids formed from combinations of prisms (ACMMG161)

Shape