





## **Tangram Activity**

This resource was developed as part of the Graphics CPD 2018/2019 workshop which was rolled out to teachers in the 2018/2019 academic year.

CPD Workshop Link: <a href="https://www.jct.ie/technologies/cpd\_supports\_graphics\_cpd\_workshops\_2018\_2019">https://www.jct.ie/technologies/cpd\_supports\_graphics\_cpd\_workshops\_2018\_2019</a>

This unit was showcased during this workshop and focused on how a teacher developed a unit of learning with their students and school context in mind. This sample resource may assist you in planning and developing materials suitable for your student's context. The main focus of this unit of learning was developing understanding around geometric constructions and developing spatial reasoning skills. This engagement can be found on slides 42- 57 of the Graphics CPD 2018/2019 PowerPoint.

## What is included in this PDF?

1. Sample unit of Learning

Included is the sample unit of learning developed by the JCt4 Graphics team. Highlighted in the plan is what learning outcomes are being activated by the worksheet. A red box will highlight the learning outcomes, key learning, evidence of learning and the learner experience sections within the plan to emphasise where the resource fits within the context of the unit.

## 2. Tangram Handout

As part of the unit of learning a handout was developed to activate the learning outcomes within the unit. This handout was specifically designed for the CPD 2018/2019 workshop and it is recommended that this resource be tailored to suit your own specific class group and context.



**Note:** It is recommended that you engage with the CPD materials in conjunction with using this resource to contextualise the resource and make a better connection between resource and learning outcomes.

b identify the learning Using your own classroom autcomes for your unit of Consider the age, stage Develop ideas for how context, what methodologies and prior learning of the tudents could experience this learning. and resources will support dentify the key learning students in experiencing the What fearing do we want to or students using action learning outcomes. whit to support your Explore both the strands and elements when choosing learning colicomes. **Ensure assessment aligns** thinking. How will I know they are with the learning outcomes learning? Consider how we will and their action verbs mess and report evidence of learning AGE STAGE +13300 LEARNING OUTCOMES, (1-3) (3.10) - PAIR WORK ON PAPER PLANE & VEY LEARNING -USING 30 EXAMPLES MODELS - USE OF BRAWING EQUIPMENT SEPTEMBER 157 YEAR (13) (3.10) DERIVE, LOWESTICATE, APALY To DERIVE 20 SoluTIONS TO PROVE CONCEPT/PRINCIPLE -WORKING FROM 3D TO 20 TO - PAPER PLANE PAPER FORDING PRICE KNOWLEDGE/LEARNING \*(1.6) DERIVE SOLUTIONS TO GEOMERIC To DERIVE PROOF REASONING - COMPLETE WORKSHEETS - BASIC EQUIPMENT SKILLS PROBLEMS BEHIND PRINCIPLE (CONCEPT - ACCURATE REPRESENSATION \*(112) (1.6) CONSTRUCT, APPLY - Common 20 GEOMETRIC OF BISECTING LINES & ANGLES ! - of solutions -DEMONSTRATE AN UNDERSTANDING SHAPES - Porygons, \*(1) (3.3) (1.10) -TORMINOLOGY OF PRINCIPLES SCRLORED ABOUE CIRCLES, TRIANGLES - CREMTE TANGRAM BY CONSTRUCTING SOLUTIONS IN - MANIPULATION OF SHAPES LEARNING To Focus ON ACCORDANCE WITH CRAPMICAL - WORKSHEETS WITH EXAMPLES - 457 PROPERTIES OF CONVENTIONS - CONSOLIDATE OF EUERYDAY CONTEXT SITUATIONS 20 SHAPES & CREMTE \* BASIC GEOMETRIC CONSTRUCTIONS BOMARD SKILLS MODELS OF SAME USING INVOLVING GEOMETRIC PROBLEMS - FUNDAMENTAL CONCEPTS (3.3) (1) DEMONSTRATE, VISUALISE TANGRAM PIECES GAPPLY PRINCIPLES FROM & PRINCIPLES (1.3) \$ (3.10) -DEMONSTRATE SPATIAL UNDERSTANDING REFLECTION \* SPATIAL REASONING ABILITY \*(1) TAROUGH MANIPULATION OF REGULAR (3.3)\* STUDENTS APPLY KNOLLOGE 20 SMAPES - MANIPULATION OF BASIC - TANGRAM ACTIVITY FROM EARLIER UM75 TO LIST PROPERTIES OF SUMPES +(1-10) UNDERSTAND - CONSTRUCTION & PRINCIPLES 20 SHAPES To Production FROM ABOVE TO CREATE \* PAIRLORK TO SOLVE DEMONSTRATE AN UNDERSTANDING SOLVE - PHYSICAL MODER CREATED PROBLEMS & ANALYSE OF GEOMETRIC PROPERTIES OF BY STUDENTS FROM CARD Socutions COMMON 20 SHAPES - WORNSHEET LATH CHALLENGES ASSESSMENT, (DIFFERENTIATION) FOR TEACHER An tSraith Sholsearach do Mhuinteoin - PROPERTIES OF COMMON - (REATION OF 30 MODELS JuniorCYCLE for teachers - COMPLETE 20 SOLUTIONS ON WORKENETS 20 SHAPES

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