MeMe			
MODERN CLASSROOMS, MODERN EDUCATION MODERN SUCATION			
I. C. "DON MILANI" - LANCIANO			
TEACHER: INES PALENA			
LESSON PLAN:MATH		RESOURCES: MINDMAPLE, GEOGEBRA	
LEVEL: LOWER SECONDARY			
AGE OF STUDENTS: 11			
UNIT: POLYGONS			
GENERAL GOALS:			
Students will know definition, classification and properties of polygons, in particular the			
normal one			
VOCABULARY covered during the lesson:			
Regular, irregular, diagonal, perimeter, convex, concave, exterior and interior angles			
REQUIRED PRE KNOWLEDGE:			
general knowledge about plan geometry (segment, angle etc.)			
SPECIFIC OBJECTIVES (specify skills / information that will be learned):			
Students recognize polygons, compare and classify them, calculate perimeter, draw diagonals,			
interior and exterior angles			
	0.000		
MATERIALS NEEDED:	OTHER	MATERIALS NEEDED: (realia, apps or	
• blackboard	program		
• LIM	•]	Map "Polygons" on MindMaple (attached file)	
Computers or tablet	•]	nternet	
	• (Geogebra	

TEACHER	STUDENT
LEAD IN: The teacher start the lesson by inviting the students to play a game on Geogebra, about the famous Archimede puzzle <u>Stomachion</u> (see the <u>solution</u>)	Students try to solve the puzzle
DIGITAL LESSON After the game, the teacher asks what are all the shapes in the Stomachion, and introduce polygons lesson using a map created with MindMaple	Students listen and actively participate, practicing what learned with some online activity <u>interactive polygons</u> <u>recognise polygons</u>
PRACTICAL ACTIVITY The teacher invite students to open Geogebra, and present step by step how to draw regular polygons, how to calculate perimeter, interior and exterior angles etc. as showed on this link <u>regular</u> <u>polygon</u>	Students follow step by step teacher's indication on Geogebra app, and practice by themselves in small group or in couple (it depends on the numbers of available computers or, if not available at all, on the other advice such as tablet or cell phone)
CLOSURE: The teacher propose to the students some exercises to make on Geogebra: <u>diagonals</u> <u>exterior angles</u>	Students put in practice what they have learned by doing some online activities