ULD Unit: INTRODUCTION TO ORIGAMI Lessons: 2 hours

TEACHING	To introduce the basic origami vocabulary		
AIMS	To make students familiar with basic techniques of origami		
	To follow diagrams to make beginners projects		
	To develop coope	erative skills	
	To make an intro	duction of geometric concents and polygons	
	To propert o long	and be a second se	
		allese Legenu	
	Io improve motor skills through the spatial manipulation of paper		
	To improve oral s	Kills	
	lo develop visual	accuracy and three-dimensional imagination	
	To enhance sequ	ential memory and logical reasoning	
LEARNING	TO KNOW:	- Definition and history of origami.	
OUTCOMES		 Basic vocabulary and different kinds of folding 	
		 Identify and describe attributes of 	
		two and three dimensional geometric shapes	
		- Solve problems using visualization, spatial	
		reasoning and geometric modeling	
		- Understand and value different artistic forms of	
		evnression	
		Interpret and put into practice processes of	
		- interpret and put into practice processes of	
		mainemalical reasoning	
		Understand stap by stap directions peacesany to	
	DE ADLE IU.	- Onderstand step-by-step directions necessary to	
		- Plan and produce a work of art applying media,	
		techniques, and processes with skill, confidence, and	
		sensitivity.	
		- Create three-dimensional shapes from a flat two-	
		dimensional surface.	
		- Use specific vocabulary	
	BE AWARE OF:	- multicultural awareness by exploring Japanese	
		history.	
		- Need of use tools and materials in a responsible	
		and orderly way	
		Applications of origami techniques to solve	
		- Applications of origanil techniques to solve	
		problems	
		any and rotantian	
I HINKING SKILLS	- Improving mem	information on the techniques	
	- Asking for information on the techniques		
	- Organising information: advantages - disadvantages		
	- Improving eye-r	nand coordination	
	 Identifying and analysing spatial relationships Applying visual and spatial memory 		
	 Understanding and value different artistic forms of expression Applying techniques of a different artistic language Understanding the technological aplications of origami 		
	- Expresing obse	rvations opinions and suggestions	

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COMUNICATION				
Language of learning	Language for learning	Language through learning		
 Key phrases needed: The first thing you do is First, (you) Then, (you) Next, (you) Lastly, (you) <i>Key vocabulary:</i> corner, center, middle, spin, rotate, crease, fold, edge, point, unfold, tuck in, flap, reverse fold, shaping, sink, turn over, turn around 	 Following instructions After that, The next step is to The next thing you do is Questioning and answering What needs to be done? What do you think we should do? Developing the given task The more precise you fold, the nicer it will look. Crease each step sharply at least three times. The sharper you fold, the easier it will be to follow the guidelines on the paper to the next step. 	Interacting with class- mates Dealing with misunder- standing		
ACTIVITIES	 Matching word-image / definition-word / definition-image Telling sentences using language frames Locating basic origami landmarks Analyzing diagrams and directions Folding a paper to create geometrical shapes. Reading and understand texts about origami making a Miura-ori folded map 			
RESOURCES	 Visual and step by step paper exemples Glossary of origami words: X001_Origami-vocabulary,.doc Language frames, definitions and examples Tutorial video: <u>https://www.youtube.com/watch?v=foo1yNyDgV0</u> Texts about origami: legend, technological applications of origami, etc. (X001_ORIG_HISTORY, X001_Tech-applications_Orig.odt, X001_Sadako.doc) Digital presentation of origami (ppt): X001-origami presentation.ppt 			
ASSESSMENT CRITERIA can the student	 identify basic vocabulary report the sequence of the folds understand the sequence of folds report the order of the folds explain the sequence of folds communicate a choice answer questions about origami h share a task in group to make a cu 	to make the bases istory and Sadako's story ibe		

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SPECIAL RECOURCES	Description of the Case Study #1
(STUDENTS WITH SPECIAL NEEDS)	Difficulties in: * Language comprehension * Events sequencing * Working memory * Following directions * Vocabulary
	Resources to use with these students: * Preview vocabulary * Easy model step-by-step directions * Pictorial visual aid * Work with classmate * Individual word wall including pictures * Adapted texts
	Description of the Case Study #2
	Difficulties in: Visually impaired
	Resources to use with this student:
	 * texts in digital format that can be read with the computer * texts in Braille that can be read several times in order to improve comprehension * step-by-step tactile diagram: inverted dots diagram is used because a blind person has sharp sense of touch to feel the creases in the paper. * Peer Tutoring: have a paired working arrangement (buddy system). It allows the special student to establish a relationship with a classmate with whom they can feel comfortable asking for assistance, and decreases dependency on the teacher

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Activity 1: A self-folding map

Maps are generally folded both horizontal and vertical way. They are done one by one. But is there any way to fold at once in both horizontal and vertical ways? Miura-ori is the answer for it.

The Miura-ori (translation = Miura-fold) is also famous in map folding. The Miura-ori allows a square piece of paper to be folded in such a way that it can be opened (in one motion) by pulling at two opposite corners.

As well, a Miura-ori folded map is less likely to tear at the crease junctions.



http://www2.eng.cam.ac.uk/~ms652/teaching/archeng2012.html

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https://www.youtube.com/watch?v=foo1yNyDgV0

