

科技雙語課程單元教案-- 以Linkage 桿件繪圖設計為例  
 Bilingual Technology– Linkage drawing design  
 Lesson plan

Topic	Linkage mechanism drawing design	Subject	Technology
Teaching materials	Laptop	Designer School	張明德 基隆市百福國中
Grade Level	9	Time	45 min
Design Concepts	1. Linkage download and introduction. 2. Crank-Rocker Mechanism 3. Drawing mechanism design		
Core competencies	總綱	A2 系統思考與解決問題	
	領綱	科-J-B1 具備運用科技符號與運算思維進行日常生活的表達 與溝通。	
Subject performance and content	performance	1. Students will be able to download and use linkage software 2. Able to use Linkage 3. Understand crank-rocker mechanism 4. Modify crank-rocker mechanism into a drawing mechanism	
	content	1. linkage 2. connection, anchor and rotating anchor 3. Fine tune, observation and think	
Students prior knowledge	1. Subject Prior knowledge	1. What they learned from last class. 2. linkage,	
	2.English prior	basic English	

	knowledge	
Teaching sequence	<ol style="list-style-type: none"> <li>1. Linkage</li> <li>2. crank-rocker mechanism</li> <li>3. PPT</li> </ol>	
Learning objective	1. Subject learning objectives	<ol style="list-style-type: none"> <li>1. Students know how to download and use Linkage software</li> <li>2. Students can fine tune mechanisms</li> <li>3. Students can make beautiful drawings</li> </ol>
	2. English learning objectives	<ol style="list-style-type: none"> <li>1. key words: easy, difficult, rules</li> <li>2. link, connect, drawing</li> </ol>
Curriculum integration		
Teaching resources		Linkage

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