

2017 Fall New Taipei City English Wonderland Qianhua Regular Campus

新北市英速魔法學院 106 學年度活動設計

Course Activity Planning

For 2017/9-2018/6

堂次 Class	Class 1	領域 Subject	Science
單元主題 Unit Theme	Identifying the properties of unknown substances	設計者 Course Planner	John Strain
教學對象 Target Audience	5 th grade students	教材來源 Source of Class Materials	School administration and outside companies
教學時間 Course Duration and Time	Fifty minute class (3 teachers team)		
單元目標 Course Objective	<ul style="list-style-type: none"> • To learn and use science vocabulary in English • To use the Scientific Method to identify unknown substances • To work together as a team solving science problems • To have fun learning English 		
教學目標 Class Objective	<ul style="list-style-type: none"> • To learn new science vocabulary • To learn about lab safety • To learn lab routines and procedures • To use English 		
教學資源 Class Resources	Science Lab Equipment: Substances - (sugar, salt, baking soda, starch) Liquids – (vinegar, iodine, alcohol) Equipment: Hand lenses, safety goggles, trays, beakers, eyedroppers. aluminum foil, alcohol lamps, coffee stirrers Classroom C: Computer, projector, smartboard, whiteboard		

具體目標 Objective	教學過程及活動 Class Activities	教學資源 Class Resources	時間 Duration	備註 Notes
	<p>The students will:</p> <ul style="list-style-type: none"> • Learn about lab safety • See photos of all science vocabulary words and recite • Play <i>Flash Card Game</i> using new vocabulary • Be given a worksheet for them to match <i>word/picture</i> • Be given an orientation to the location of lab materials • Be given the procedures of obtaining / using materials • Be given a demonstration of testing materials • Learn about proper cleanup • See points earned for their team (behavior plan) 	PowerPoint/Teacher Power Point Flash Cards Classroom/worksheet Classroom/materials Classroom/materials Teacher Whiteboard Whiteboard	5 minutes 5 minutes 7 minutes 5 minutes 5 minutes 10 minutes 10 minutes 2 minutes 1 minutes	

堂次 Class	Class 2	領域 Subject	Science
單元主題 Unit Theme	Identifying the properties of unknown substances	設計者 Course Planner	John Strain
教學對象 Target Audience	5 th grade students	教材來源 Source of Class Materials	School administration and outside companies
教學時間 Course Duration and Time	Fifty minute class (3 teachers team)		
單元目標 Course Objective	<ul style="list-style-type: none"> • To learn and use science vocabulary in English • To use the Scientific Method to identify unknown substances • To work together as a team solving science problems • To have fun learning English 		

<p>教學目標 Class Objective</p>	<ul style="list-style-type: none"> • To use the science lab equipment to identify 2 substances using hand lenses • To use the science lab equipment to identify 2 substances using iodine • To work together as a team • To record data accurately • To use English while speaking and recording data
<p>教學資源 Class Resources</p>	<p>Science Lab Equipment: Substances - (sugar, salt, baking soda, starch) Liquids – (vinegar, iodine, alcohol) Equipment: Hand lenses, safety goggles, trays, beakers, eyedroppers. aluminum foil, alcohol lamps, coffee stirrers Classroom C: Computer, projector, smartboard, whiteboard</p>

<p>具體目標 Objective</p>	<p>教學過程及活動 Class Activities</p>	<p>教學資源 Class Resources</p>	<p>時間 Duration</p>	<p>備註 Notes</p>
	<p>The students will:</p> <ul style="list-style-type: none"> • Listen to teacher's review of procedures • Obtain need material to begin testing substances • Test 4 substances using the magnification test • Test 4 substances using the iodine test • Record their findings on the data sheet • Clean up • Orally share their finding with the class using data sheet • See points earned for their team (behavior plan) 	<p>Classroom/Teacher Classroom/Materials Hand lens Iodine Data Sheet Classroom/materials Teacher / Students Whiteboard</p>	<p>3 minutes 2 minutes 12 minutes 12 minutes On going 10 minutes 10 minutes 1 minutes</p>	

堂次 Class	Class 3	領域 Subject	Science
單元主題 Unit Theme	Identifying the properties of unknown substances	設計者 Course Planner	John Strain
教學對象 Target Audience	5 th grade students	教材來源 Source of Class Materials	School administration and outside companies
教學時間 Course Duration and Time	Fifty minute class (3 teachers team)		
單元目標 Course Objective	<ul style="list-style-type: none"> • To use the science lab equipment to identify 2 substances using vinegar (acid) • To use the science lab equipment to identify 2 substances using heat • To work together as a team • To record data accurately • To use English while speaking and recording data 		
教學目標 Class Objective	<ul style="list-style-type: none"> • To use the new science vocabulary • To use lab safety • To use proper lab routines and procedures • To use English 		
教學資源 Class Resources	<p>Science Lab Equipment: Substances - (sugar, salt, baking soda, starch) Liquids – (vinegar, iodine, alcohol)</p> <p>Equipment: Hand lenses, safety goggles, trays, beakers, eyedroppers. aluminum foil, alcohol lamps, coffee stirrers</p> <p>Classroom C: Computer, projector, smartboard, whiteboard</p>		

具體目標 Objective	教學過程及活動 Class Activities	教學資源 Class Resources	時間 Duration	備註 Notes
	<p>The students will:</p> <ul style="list-style-type: none"> • Listen to teacher's review of procedures • Obtain need material to begin testing substances • Test 4 substances using the Vinegar test • Test 4 substances using the Heat test • Record their findings on the data sheet • Clean up • Orally share their finding with the class using data sheet • See points earned for their team (behavior plan) 	Classroom/Teacher Classroom/Materials Hand lens Iodine Data Sheet Classroom/materials Teacher / Students Whiteboard	3 minutes 2 minutes 12 minutes 12 minutes On going 10 minutes 10 minutes 1 minutes	

堂次 Class	Class 4	領域 Subject	Science
單元主題 Unit Theme	Identifying the properties of unknown substances	設計者 Course Planner	John Strain
教學對象 Target Audience	5 th grade students	教材來源 Source of Class Materials	School administration and outside companies
教學時間 Course Duration and Time	Fifty minute class (3 teachers team)		
單元目標 Course Objective	<ul style="list-style-type: none"> • To learn and use science vocabulary in English • To use the Scientific Method to identify unknown substances • To work together as a team solving science problems • To have fun learning English 		

<p>教學目標 Class Objective</p>	<ul style="list-style-type: none"> • To use new science vocabulary • To use lab safety • To use lab proper routines and procedures • To use English 			
<p>教學資源 Class Resources</p>	<p>Science Lab Equipment: Substances - (sugar, salt, baking soda, starch) Liquids – (vinegar, iodine, alcohol) Equipment: Hand lenses, safety goggles, trays, beakers, eyedroppers. aluminum foil, alcohol lamps, coffee stirrers Classroom C: Computer, projector, smartboard, whiteboard</p>			
<p>具體目標 Objective</p>	<p>教學過程及活動 Class Activities</p>	<p>教學資源 Class Resources</p>	<p>時間 Duration</p>	<p>備註 Notes</p>
	<p>The students will:</p> <ul style="list-style-type: none"> • Listen to teacher’s review of procedures • Obtain need material to begin testing substances • Test a mixture of substances to determine content • Test a 2nd mixture of substances to determine content • Refer to their data sheets to determine content • Clean up • Orally share their finding with the class using data sheet • See points earned for their team (behavior plan) 	<p>Classroom/Teacher Classroom/Materials All tools necessary All tools necessary Data Sheet Classroom/materials Teacher / Students Whiteboard</p>	<p>3 minutes 2 minutes 12 minutes 12 minutes On going 10 minutes 10 minutes 1 minutes</p>	