



# 素養導向專題式教學

## 專案執行與過程管理

科技領域央團輔導員  
北興科技中心  
楊心淵



Chiayi Pei Shin  
Maker Education and Technology Center

# Project Path

## What Students Think About:

- What is the project asking me to do?
  - What do I need to know?
  - Why is this important?
  - Who will I be sharing my work with?
- 
- What resources can and should I use?
  - Can I trust the information I am finding?
  - What is my role in the process?
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- How can I apply what I have learned to the project?
  - What new questions do I have?
  - Do I need more information?
  - Is my work on the right track?
- 
- What should I explain about my work?
  - How can I best share this with others?
  - What have I learned and what should I do in the next project?

## Project Phase:

Launch Project:  
Entry Event &  
Driving Question



Build Knowledge,  
Understanding & Skills to  
Answer Driving Question



Develop & Critique  
Products & Answers to the  
Driving Question



Present Products  
& Answers to the  
Driving Question

## How Teachers Support Inquiry:

- Conduct entry event and present/co-construct driving question
  - Facilitate process for generating student questions
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- Facilitate use and evaluation of resources
  - Provide lessons, scaffolds, and guidance in response to student needs
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- Help students apply learning to project tasks
  - Provide additional experiences to generate new knowledge and questions
  - Facilitate processes for feedback
- 
- Help students evaluate their work
  - Facilitate student reflection on process and learning



# 專案執行路徑



專案啟動：進入事件&驅動問題

建立知識，理解和技能來回答驅動問題

發展與批判產品與回答驅動問題

產品發表和回答驅動問題

# 進入事件&驅動問題



## 學生思考方向

- 專案要求我做什麼做？
- 我需要什么知道什麼？
- 為什麼這很重要？
- 我將與誰分享我的作品與？

## 教師如何支持探究

- 進行開始活動和當前/共同構建驅動問題
- 促進引發學生問題流程

# 建立知識理解技能來回答驅動問題



## 學生思考方向

- 我可以而且應該使用哪些資源用？
- 我可以相信我所發現的信息嗎？
- 我在過程中扮演什麼角色？

## 教師如何支持探究

- 促進使用和評估資源
- 根據學生的需求提供課程，應架和指導

# 發展與批判產品與回答驅動問題



## 學生思考方向

- 我如何應用所學知識到專案？
- 我有什麼新問題？
- 我需要更多資訊嗎？
- 我的工作是否正確？

## 教師如何支持探究

- 幫助學生應用所學於計劃任務
- 提供額外的經驗以產生新的知識和問題
- 促進回饋流程

# 產品發表和回答驅動問題



## 學生思考方向

- 我該如何說明我的工作？
- 我如何最好地與他人分享？
- 我學到了什麼？我應該在下一個專案中做什麼？

## 教師如何支持探究

- 幫助學生評估他們的工作
- 促進學生反思學習的過程

# LAUNCH



- See Think Wonder
- Zoom In
- Think Puzzle Explore
- Generate Sort Connect Elaborate

# BUILD KNOWLEDGE



- +1 Routine
- Sentence- Phrase- Word
- Micro-lab Protocol
- The 4Cs

# DEVELOP AND CRITIQUE



- What Makes You Say That?
- Chalk Talk

# PRESENT



- I used to think.... , Now I think

# 專案管理文件



- 小組公約
- 小組任務清單
- 專案工作報告-小組
- 專案工作報告-個人
- 簡報發表計畫
- 專案工作反思