Educational Research Award Scheme Sharing

Mr. Lee Tsz Wai

Mrs. Lam Wai Mei



新生命教育協會呂郭碧鳳中學 NLSI Lui Kwok Pat Fong College

Mrs. Law Chenk Yan



迦密唐賓南紀念中學 Carmel Bunnan Tong Memorial Gecondary Gehool

Contents

- 1. Introduction
- 2. Experience of subject teacher
- 3. Reflection

Introduction

Introduction

1. WHY did we join the Educational Research Award Scheme?

School Level -- Teachers' Professional Development

IV. Establishing Commendation Schemes

21. The EDB will establish a new commendation scheme to acknowledge teachers and school leaders with distinguished contributions to education and promotion of school development. In addition, schools are advised to consider creating the title of "Expert Teacher" to recognise the outstanding performance of teachers in learning and teaching, education research and developing professional learning communities, taking into account their school-based circumstances. The new title serves to acknowledge their contributions in enhancing teacher professional development and identify teachers for promoting professional exchange within and across schools. Further details will be announced in due course.

COTAB -- T-shave





A.A.A

繁體 简体

Search ...

Since its inception in June 2013, the Committee on Professional Development of Teachers and Principals (COTAP) has been working towards building shared vision, mission and objectives for enhancing the professional development of teachers and school leaders in Hong Kong. To achieve these goals, COTAP has launched T-excel@hk, an overarching project which comprises eight areas of focus.

The Educational Research Award Scheme (the Scheme) is an initiative under T-share, which is one of the focus areas under T-excel@hk. It aims to encourage teachers to try out, improve and share new or effective pedagogical practices through educational research; further enhance teachers' professionalism and support their continuous professional development; and promote a research culture within the education sector.

Great support from the principal



Introduction 2.1 What is our topic?



在初中家政科推行「設計思維」以培養學生自主學習並同理心

Introduction

2.2 Targets
F.1-F.2 students
Boys & Girls
Home Economics

2.3 Methodology (A)Questionaires

Aflatoony, L., & Wakkary, R. (2017). Becoming a Design Thinker: Assessing the Learning Process of Students in a Secondary Level Design Thinking Course.

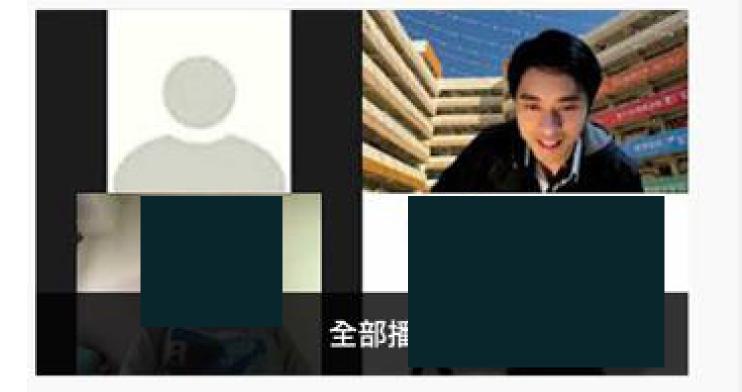
Simon Baron-Cohen and Sally Wheelwright (2004). The Empathy Quotient

2.3

Methodology

B/ Interview

focus groups



教研--DESIGN THINKING IN HE

6 部影片・觀看次數:10次・上次更新日期:2022 年4月10日

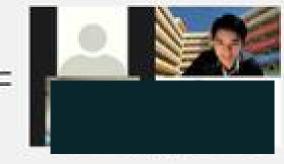
不公開 ~

汉 & …

未提供任何說明

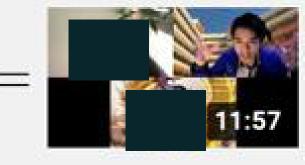






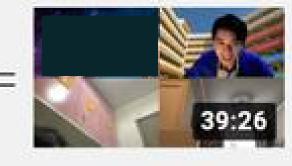
2A2D訪談

Tsz Wai Lee



2B訪談

Tsz Wai Lee



2C 訪談

Tsz Wai Lee



1A1D訪談

Tsz Wai Lee



Tsz Wai Lee

1B1C訪談

Tsz Wai Leg 1

2.3 Methodology C)Students' work & teacher observation

Stage 4: Prototype

Task 4: Pattern Construction and Preparation of Fabric

Part 1: Refer to the given pattern construction notes and adjust your final design pattern. The finished pattern should keep inside your display folder.

Submission Date:	

Part 2: Preparation of Fabric

Refer to the notes of preparation of fabric and finish the preparation process in class. Teacher will record your progress and count it as your daily performance.

Part 3: Sew the final product

Refer to the teacher instructions, sewing notes and the self-directed learning materials, finish the final design.

Part 4: Presentation of your Final Design

Congratulations! © You've finished making your pencil case. Take a photo of your final product and stick it below.



Stage 5: Test

Task 5: Self-reflection & Peer-evaluation

Part 1: Self-reflection

After making the pencil case, please put a 'V' that best describe your opinions.

1. I participated well in the lessons.	Strongly agree	Agree	Disagree	Strongly disagree
		4		
2. I tried my best to complete the article. 3. I love my article.	\square			
4. I understand the process and the use				
of design thinking model.	\triangle			
I could show empathy to the user's needs and wants.		<u>_</u>		
 I could fully understand my teacher's instructions & demonstrations. 		Lev	_	
7. Are there any limitations of your design?		14		Ш
It is too short and don't have a longer white neulal zppper.				
			-10	

Introduction

3. Role of Panel Head

21st Century Learning Design

- Technology Education Key Learning Area (TEKLA)
- Modes of Implementation
 Home Economics curriculum
- School's Major Concerns

3.1 Technology Education Key Learning Area (TEKLA)

 purposeful application of knowledge, skills and values
 & attitudes

3.1 Technology Education Key Learning Area (TEKLA)

 using resources to create products or systems to meet human needs and wants
 (Individual, Family, Community)

3.1 Technology Education Key Learning Area (TEKLA)

 has impact on the individual, family, society and the environment

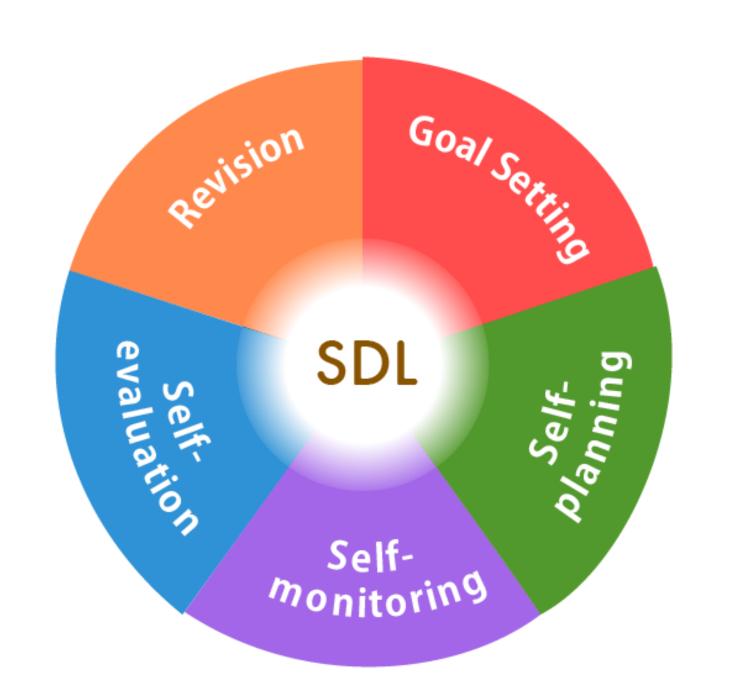
3.2 Modes of Implementation Home Economics curriculum

- Subject & School-based learning
- Theme-based Project Learning
- Life experiences of students
- Hands-on studies
- Community needs/Problem-solving

3.3 School's Major Concerns

• self-directed learning





Aspire

Boost your knowledge

Connect

Experience of subject teacher



DESIGN THINKING

Empathize Understanding people

Ideate Generating your ideas

Define
Figuring out
the problem

Test
Refining the product

Prototype
Creation and
experimentation

在初中家政科推行「設計思維」以培養學生自主學習並同理心

Planning

CURRICULUM

ASSESSMENT

Research process

RESTRICTIONS & DIFFICULTIES

SOLUTION

Planning

CURRICULUM

 Balance the teaching contents for regular Home Economics curriculum requirement and the new content (Design Thinking)

Merge "design thinking process" into the project-based work

ASSESSMENT

- Worksheets design
 - E.g. Subheading: stages of design thinking process
 - Clear demonstrationComparison of Terms 1 & 2(level up)
- Rubrics
 - add related assessment items
- Questionnaire

Items	Good 😊 😊	Satisfactory ©	To be improved 😐		
Design & colour/15	 Cup holder displays great elements of design and student's creativity. Cup holder is totally in line with the final design. Cup holder is well-considered for the user's needs and wants. 	 Cup holder displays some use of elements of design and somewhat displays the student's creativity. Cup holder is related to the final design. Cup holder has shown a bit of a relationship to the user's needs. 	 There is no evidence of creativity in the cup holder. The cup holder is totally different from the final design. Cup holder doesn't show a relationship to the user's needs. 	Consistency Show empathy **	
Stage 1 &2: Empathy and Define/5	 The questionnaire is completed by following all the requirements. 3 or more design details are stated clearly with reason in the "define" stage. 	 The questionnaire is completed but there seems to be some confusion. Clear target user is shown. 1-2 design details are defined and related to the 	 The questionnaire is incompleted. No clear target user is shown. The design details defined are not related to the questionnaire. No design reason is shown in the "define" stage. No complete sentences are 	Basic: target users	
Stage 3 Task 2: Ideate	 All designs show empathy to the user's needs. The design is completed 	empathy to the user's needs. The design is completed but is not clear in details. Feedback is written but some of them are incorrect/not reasonable. The final design shows e user's needs. empathy to the user's needs. The design looks rushed and/or incomplete. Little or no features are highlighted or labelled. No feedback is written or most of them are written incorrect. Final design doesn't show empathy to the user's needs.	Show empathy ** (understand user's needs and wants)		
Stage 3 Task 3: Final Design	 with clear details. Feedback is written and reasonable. The final design shows empathy to the user's needs. The design is well illustrated 		 Feedback is written but some of them are incorrect/not reasonable. The final design shows empathy to the user's needs. Little or no features are highlighted or labelled. No feedback is written or most of them are written incorrect. Final design doesn't show empathy to the user's needs. 	 Feedback is written but some of them are incorrect/not reasonable. The final design shows empathy to the user's needs. The design does not include Little of highlight No feed of them at the properties of the properties of them at the properties of the properties of them at the properties of the propert	 Feedback is written but some of them are incorrect/not reasonable. The final design shows empathy to the user's needs. The design is well illustrated Feedback is written but some of them are incorrect/not highlighted or labelled. No feedback is written or most of them are written incorrect. Final design doesn't show empathy to the user's needs. The design does not include The design looks rushed and/or
Stage 5: Self and peer evaluation/15	 with colour and labelled. Clear and reasonable adjustment of the design is given. The reflection is well- explained. 	all the requirements, e.g.: - labelled with dimension - labelled with other design details - draw with colour • Adjustment of design is completed but not clear/reasonable. • The reflection is completed but not clear.	 incomplete. Little or no features are highlighted or labelled. No reason for the adjustment is given. The reflection is very vague. 	Show empathy ** (show reasons for the final design)	

During research process

RESTRICTION & DIFFICULTIES

- Difficult to assess: empathy
- Students could not grip the concept of design thinking clearly
- 2nd SEM: pandemic >> Zoom lessons

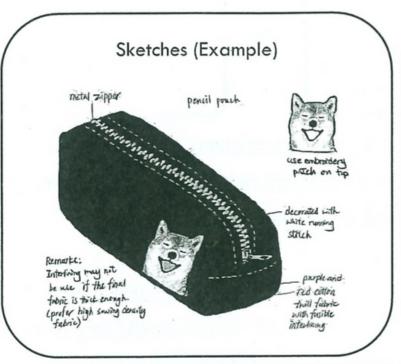
2. Finish the questionnaire A list of questions is given to by yourself if the pencil case Introduce yourself first: Hi, Alex (name). I am going to design hencil case (what) in my Home Economies lesson and I would like to make it as a gift for you. Since I want to know more about your preferences, could you please help me to do the interview? 1. How many pens do you carry normally? 5-8 9-12 13-16 more than 16 2. Do you prefer to put the calculator inside your pencil case? Yes No 3. How long is your ruler?	Ending: Thank you so much for your help. I will ask for more suggestion after the designs are created. 3. Define the needs and wants of the target user Example 1: I need a way to put the rubber because I lose the rubber easil Example 2: Amy mentioned that she brings more than 16 pens normally, pencil case with large capacity. Example 3: Peter prefers dark color because it is uneasy to get dirty. Necessary design elements (needs) (at least 1) 1. Needs a way to put some pencil because to because I he of pens.
(You can suggest not to put the ruler inside the pencil case if it is over 20cm long) 4. What shape(side view) do you prefer? □round □triangular ☑square □tall rectangle 5. Would you prefer any combination of fabric? (If yes, Q7 and Q8 have more than 1 answer) □Yes ☑No 6. How many pockets do you prefer? ☑No □1 □2	3. Other design elements (wants) (at least 2) 1. The pencil case heed to be big 2. hade of colth 3. 4.

	* present the needs/wants 2nd
	In sentence with reasons
easil	- o It should related to the
ally	design elements
	e.g. size, colour, material
	special needs
	E.g. I prefer a pencil case
2000	with large capacity
0000	to because I carm a lot
	the of pens.
	Size.
	ineeds and the reasons are not the same.
	we not pagamen
1	
X	
	1

Stage 3: Ideate

Task 2: Sketch Some Designs and Collecting feedback Sketch at least 3 designs (rough sketches), please remarks the size, texture, emb stitches design, etc. in wordings. Ask for feedback after you finished the sketche mark the key point clearly. An example is given.

(Optional: Attach fabric sample for better presentation of design)



Sketches 1

1) The feedback must

related to your sketches

-onot copy my feedball

(1) Good design elements

(2) Something need to be

!!! Any new iden?

drawings.

1 Indicute details in the

- color - material

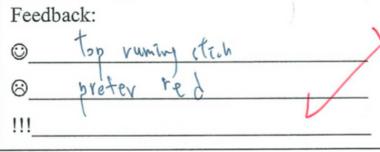


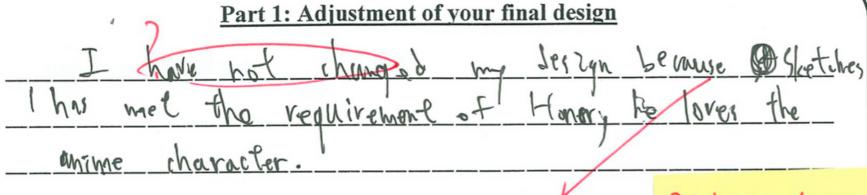
⊗ prefer combination of red and blue

!!! name may sew at the side of the case

@ embroidery patch, top running stitch

Feedback (example):





'art 2: Finish your final design

Part 2: Design Illustration



1) Where's the anime charactu?

3 In your drawings

- Color it

- Size? (width , heig - material?

- any stitches?





During research process

SOLUTION

- Provided lots of demonstrations & guidelines
- Adjusted submission format in 2nd term (Canva/ draw booklet)
- Provided suggested self-directed learning websites
- Showed lots of correct and wrong examples
- Provided feedback for 1st submission



01 class notes and sta...empathy



04&05 stage 3 ideate part2&3



02 stage 2 define



02 stage 2 define.mov



03 stage 3 ideate part1

Ideate and Prototype Stage Useful

Resources

Color Wheel

Color Palette

Gathered Useful

Information

How to Use Sketchbook

How to Use

Sketchbook(supplementary)

About Materials

About Fabric Patterns

More About Grain line (help

Cantonese YouTube Channel for Sewing Projects

you to cut fabric)

26

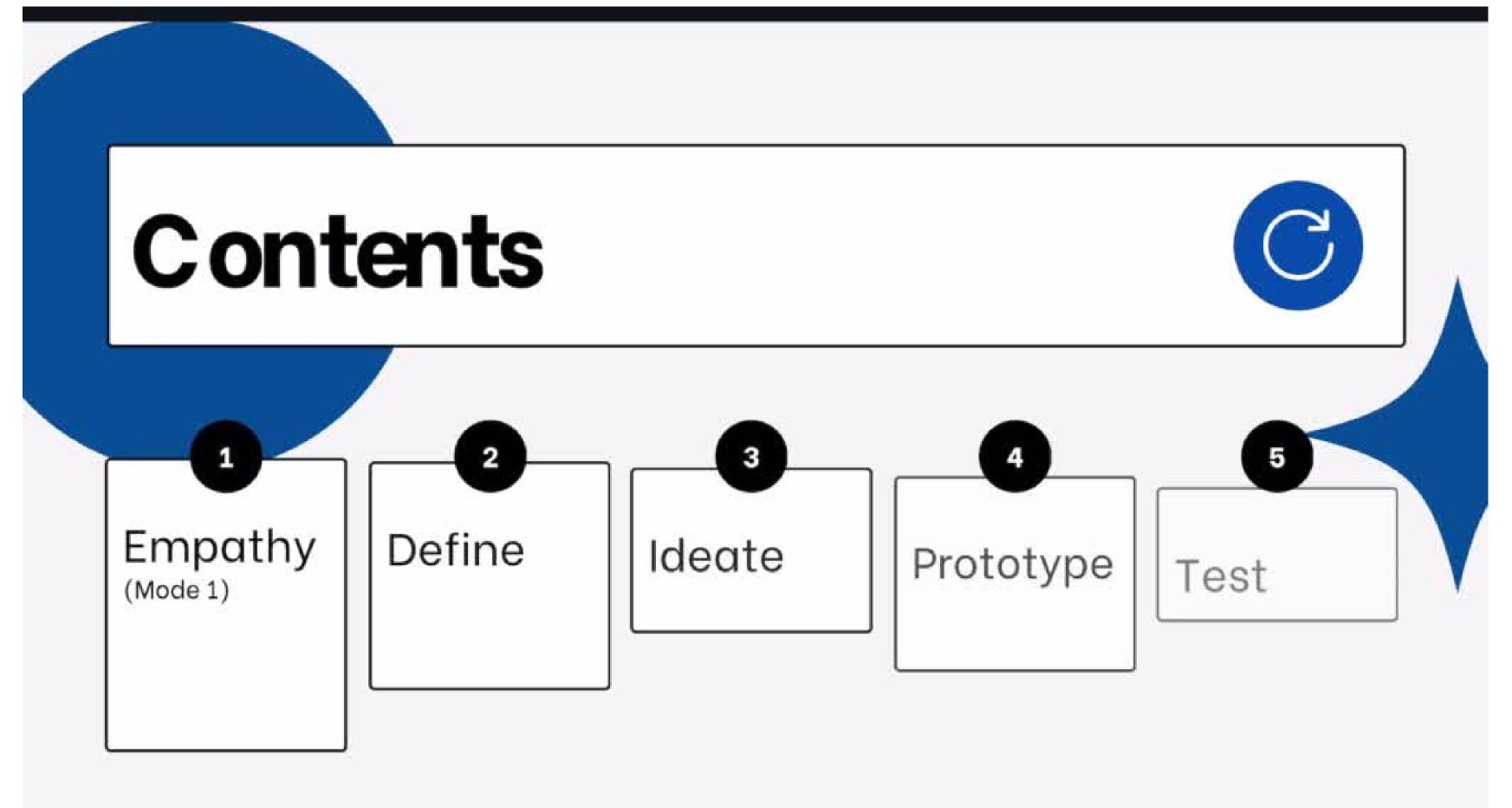


Project template ideate -...dited.pdf

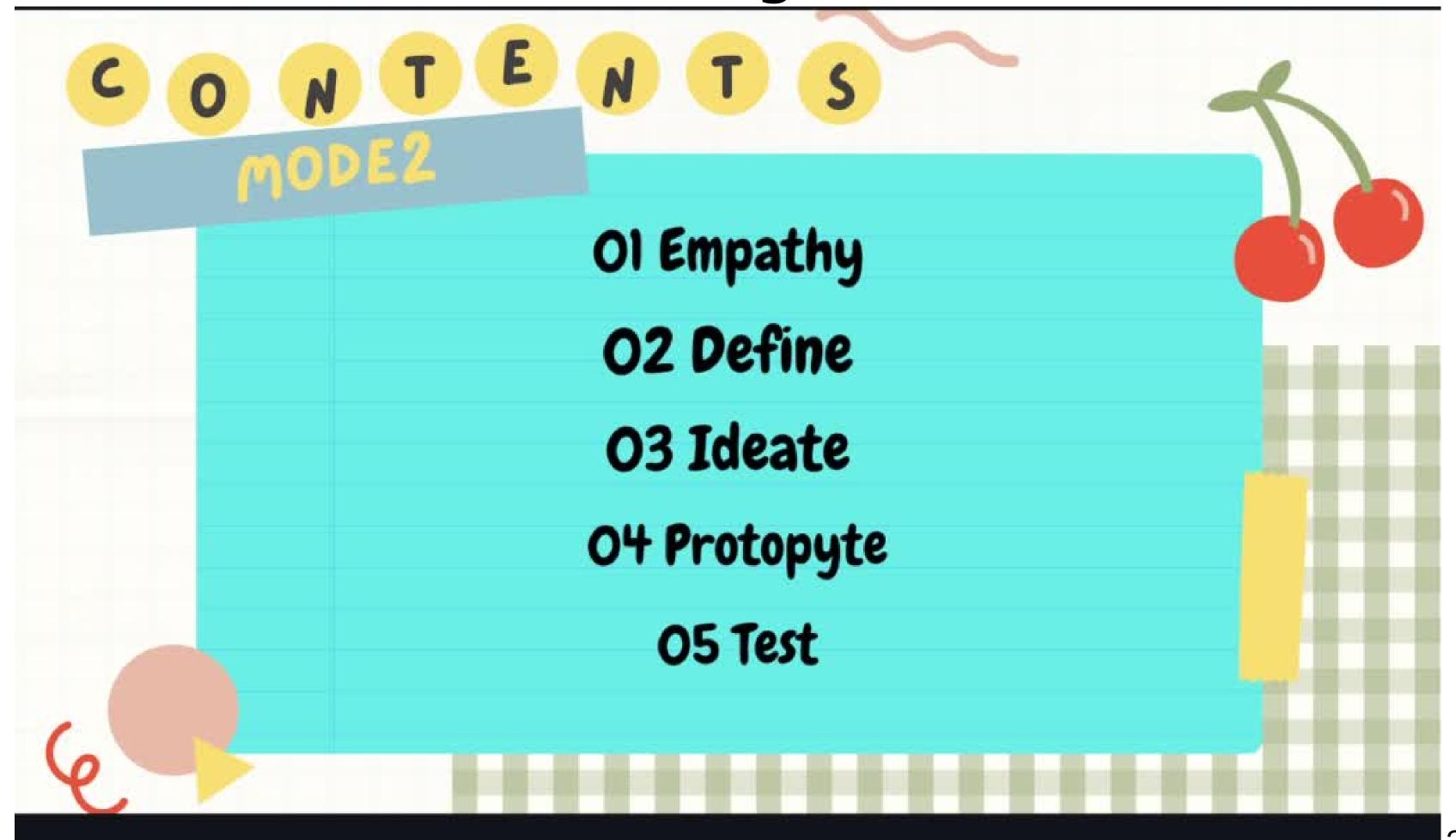


S2 Lunch bag design t...late.png

Students' work in 2nd term (Medium)



Students' work in 2nd term (High)



Reflection

Professional Development Curriculum Bevelopment

Suggestions from the Judge

more evidence such as

- 1. direct quotes from students' interviews
- 2.their self-evaluation document
- 3.peer assessment

can strengthen the research findings

Tedh Work

Educational Reform / Innovation

Trans