

Design Thinking for Grades 10

Assessment Matrix:

Module 1.0: Communication Skills

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 1.1 Written Communication Skills Individual task	The Written Communication of the chosen issue with Title, Abstract, Write-up about the issue, References and Credits is yet to be done	The Written Communication of the chosen issue with Title, Abstract, Write-up about the issue, References and Credits is just about done	The Written Communication of the chosen issue with Title, Abstract, Write-up about the issue, References and Credits is is somewhat done	The Written Communication of the chosen issue with Title, Abstract, Write-up about the issue, References and Credits is fairly done	The Written Communication of the chosen issue with Title, Abstract, Write-up about the issue, References and Credits is done very well
Task 1.2 Visual Communication Skills Individual task	The Visual Communication of the chosen issue with Title, Key Image, Visual Narrative about the issue, Icons for sub-sections, References and Credits is yet to be done	The Visual Communication of the chosen issue with Title, Key Image, Visual Narrative about the issue, Icons for sub-sections, References and Credits is just about done	The Visual Communication of the chosen issue with Title, Key Image, Visual Narrative about the issue, Icons for sub-sections, References and Credits is is somewhat done	The Visual Communication of the chosen issue with Title, Key Image, Visual Narrative about the issue, Icons for sub-sections, References and Credits is fairly done well	The Visual Communication of the chosen issue with Title, Key Image, Visual Narrative about the issue, Icons for sub-sections, References and Credits is done very well
Task 1.3 Verbal/Gestural Communication Skills Individual task	The Verbal and Gestural Communication of the chosen issue with Title, Elevator Pitch, Verbal/Gestural Presentation, Summary along with References and Credits is yet to be done	The Verbal and Gestural Communication of the chosen issue with Title, Elevator Pitch, Verbal/Gestural Presentation, Summary along with References and Credits is just about done	The Verbal and Gestural Communication of the chosen issue with Title, Elevator Pitch, Verbal/Gestural Presentation, Summary along with References and Credits is somewhat done	The Verbal and Gestural Communication of the chosen issue with Title, Elevator Pitch, Verbal/Gestural Presentation, Summary along with References and Credits is fairly done well	The Verbal and Gestural Communication of the chosen issue with Title, Elevator Pitch, Verbal/Gestural Presentation, Summary along with References and Credits is done very well
Task 1.4 Final Presentation Individual task	The presentation explaining the chosen issue making use of written, visual, verbal, gestural communication skills is yet to be done	The presentation explaining the chosen issue making use of written, visual, verbal, gestural communication skills is just about done	The presentation explaining the chosen issue making use of written, visual, verbal, gestural communication skills is somewhat done	The presentation explaining the chosen issue making use of written, visual, verbal, gestural communication skills is fairly done well	The presentation explaining the chosen issue making use of written, visual, verbal, gestural communication skills is done very well

Design Thinking for Grades 10
Assessment Matrix:
Module 2.0: Story Creation

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 2.1b Introduction to Stories: Observation Individual Task	The task of noting down 'Observations as Inspiration for Stories' is yet to be done	The task of noting down 'Observations as Inspiration for Stories' was just about done	The task of noting down 'Observations as Inspiration for Stories' was somewhat done	The task of noting down 'Observations as Inspiration for Stories' was fairly done well	The task of noting down 'Observations as Inspiration for Stories' was done very well
Task 2.1c Introduction to Stories: Conversations Individual Task	The task of making conversations with others for insights for story creation is yet to be done	The task of making conversations with others for insights for story creation was just about done	The task of making conversations with others for insights for story creation was somewhat done	The task of making conversations with others for insights for story creation was fairly done well	The task of making conversations with others for insights for story creation was done very well
Task 2.1d Introduction to Stories: Ideation Individual Task	The task of Initial/Preliminary and original ideas or sketches for the story as text and images is yet to be done	The task of Initial/Preliminary and original ideas or sketches for the story as text and images was just about done	The task of Initial/Preliminary and original ideas or sketches for the story as text and images was somewhat done	The task of Initial/Preliminary and original ideas or sketches for the story as text and images was fairly done well	The task of Initial/Preliminary and original ideas or sketches for the story as text and images was done very well
Task 2.2a Story Structure: Story Finalisation Individual Task	The finalisation of the story + Creating the Moodboard is yet to be done	The finalisation of the story + Creating the Moodboard just about done	The finalisation of the story + Creating the Moodboard was somewhat done	The finalisation of the story + Creating the Moodboard was fairly done well	The finalisation of the story + Creating the Moodboard was done very well
Task 2.2b Story Structure: Character and Environment Individual Task	Design of the character, location and the time period for the story is yet to be done	Design of the character, location and the time period for the story was just about done	Design of the character, location and the time period for the story was somewhat done	Design of the character, location and the time period for the story was fairly done well	Design of the character, location and the time period for the story was done very well
Task 2.2c Story Structure: Structure and Integration Individual Task	Selecting of the structure and integrating with the story is yet to be done	Selecting of the structure and integrating with the story was just about done	Selecting of the structure and integrating with the story was somewhat done	Selecting of the structure and integrating with the story was fairly done well	Selecting of the structure and integrating with the story was done very well

Task 2.2d Story Structure: Detailing Individual Task	Detailing the beginning, middle and end of the story and selecting the medium for your story is yet to be done	Detailing the beginning, middle and end of the story and selecting the medium for your story was just about done	Detailing the beginning, middle and end of the story and selecting the medium for your story was somewhat done	Detailing the beginning, middle and end of the story and selecting the medium for your story was fairly done well	Detailing the beginning, middle and end of the story and selecting the medium for your story was done very well
Task 2.3a Story Structure: Detailing Individual Task	The documentation of the story as text/visuals and its presentation to the class is yet to be done	The documentation of the story as text/visuals and its presentation to the class was just about done	The documentation of the story as text/visuals and its presentation to the class was somewhat done	The documentation of the story as text/visuals and its presentation to the class was fairly done well	The documentation of the story as text/visuals and its presentation to the class was done very well

Design Thinking for Grades 10

Assessment Matrix:

Module 3.0: Introduction to Creativity:

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 3.1a Observation of Creativity in Nature Group task	The Observation of Creativity in Nature as well as the presentation of the creative examples of something useful is yet to be done	The Observation of Creativity in Nature as well as the presentation of the creative examples of something useful was just about done	The Observation of Creativity in Nature as well as the presentation of the creative examples of something useful was somewhat done	The Observation of Creativity in Nature as well as the presentation of the creative examples of something useful was fairly done	The Observation of Creativity in Nature as well as the presentation of the creative examples of something useful was done very well
Task 3.1b Creative Doodling Individual task	Displays poor sensitivity towards the presentation of the creative doodle solutions	Displays very limited sensitivity towards the presentation of the creative doodle solutions	Displays average sensitivity towards the presentation of the creative doodle solutions	Displays sensitivity towards the presentation of the creative doodle solutions	Displays heightened sensitivity towards the presentation of the creative doodle solutions
Task 3.2a Creative Art Interchange Group task	The presentation of the creative Art Interchange examples is yet to be done	The presentation of the creative Art Interchange examples were just about done	The presentation of the creative Art Interchange examples were somewhat done	The presentation of the creative Art Interchange examples were fairly done well	The presentation of the creative Art Interchange examples were done very well
Task 3.2b String Stories Creatively Group task	The presentation of 3-4 creative string stories solutions in the class is yet to be done	The presentation of 3-4 creative string stories solutions in the class was just about done	The presentation of 3-4 creative string stories solutions in the class was somewhat done	The presentation of 3-4 creative string stories solutions in the class was fairly done well	The presentation of 3-4 creative string stories solutions in the class was done very well
Task 3.3a Creative Alternatives Individual task	The presentation of the creative alternative uses of the product to the class is yet to be presented	The presentation of the creative alternative uses of the product to the class was just about well	The presentation of the creative alternative uses of the product to the class was somewhat well	The presentation of the creative alternative uses of the product to the class was fairly done well	The presentation of the creative alternative uses of the product to the class was done very well
Task 3.3b Room with Emotions Group task	The presentation of the final design of the room with the chosen emotion to the class is yet to be presented	The presentation of the final design of the room with the chosen emotion to the class was just about well	The presentation of the final design of the room with the chosen emotion to the class was somewhat well	The presentation of the final design of the room with the chosen emotion to the class was fairly done well	The presentation of the final design of the room with the chosen emotion to the class was done very well

Task 3.4 Creating Music Group task	The presentation of the video creating music using everyday objects is yet to be presented	The presentation of the video creating music using everyday objects was just about well	The presentation of the video creating music using everyday objects was somewhat well	The presentation of the video creating music using everyday objects was fairly done well	The presentation of the video creating music using everyday objects was done very well
Task 3.5 Redesign Vendor Cart Group task	The presentation of the sketches of the redesign of the vendor cart to the class is yet to be presented	The presentation of the sketches of the redesign of the vendor cart to the class was just about well	The presentation of the sketches of the redesign of the vendor cart to the class was somewhat well	The presentation of the sketches of the redesign of the vendor cart to the class was fairly done well	The presentation of the sketches of the redesign of the vendor cart to the class was done very well

Design Thinking for Grades 10

Assessment Matrix:

Module 4.0: Design Project with focus on Creative Explorations

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 4.1 Understand the Problem to be solved Group + individual task	The students understood the problem area well and did a list of the interconnected factors according to priority – this is yet to be done	The students understood the problem area well and did a list of the interconnected factors according to priority – was done just about	The students understood the problem area well and did a list of the interconnected factors according to priority - done somewhat well	The students understood the problem area well and did a list of the interconnected factors according to priority - done fairly well	The students understood the problem area well and did a proper list of the interconnected factors according to priority - done very well
Task 4.2 Explore Creativity Techniques Group + individual task	The use of various creativity techniques for exploring alternate ideas is yet to be done	The use of various creativity techniques for exploring alternate ideas was just about done	The use of various creativity techniques for exploring alternate ideas was somewhat done	The use of various creativity techniques for exploring alternate ideas was done fairly well	The use of various creativity techniques for exploring alternate ideas was done very well
Task 4.3 Creative Ideas Group + individual task	Is yet to come out with creative alternate ideas along with sketches	Came out with 3 creative innovative alternate ideas along with sketches	Came out with 6 creative innovative alternate ideas along with sketches	Came out with 9 creative innovative alternate ideas along with sketches	Came out with 12 creative innovative alternate ideas along with sketches
Task 4.4 Detail and Prototype Group + individual task	The detailing and the mock-up of the prototypes is yet to be done	The detailing and the mock-up of the prototypes were just about done	The detailing and the mock-up of the prototypes were somewhat done	The detailing and the mock-up of the prototypes were fairly done well	The detailing and the mock-up of the prototypes were done very well
Task 4.4 Presentation Group + individual task	The final presentation showing the creative design process and 12 alternate solutions is yet to be done	The final presentation showing the creative design process and 12 alternate solutions were just about done	The final presentation showing the creative design process and 12 alternate solutions were somewhat done	The final presentation showing the creative design process and 12 alternate solutions were fairly done	The final presentation showing the creative design process and 12 alternate solutions were done very well

Design Thinking for Grades 10

Assessment Matrix:

Module 5.0: Fundamentals of Animation Design

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 5.1a Straight ahead animation Individual task	The Flipbook with exploration of straight ahead animation is yet to be done	The Flipbook with exploration of straight ahead animation was just about done	The Flipbook with exploration of straight ahead animation was done somewhat well.	The Flipbook with exploration of straight ahead animation was done fairly well.	The Flipbook with exploration of straight ahead animation was done very well.
Task 5.1b Pose to pose animation Individual task	The Flipbook with exploration of pose to pose animation is yet to be done	The Flipbook with exploration of pose to pose animation was just about done	The Flipbook with exploration of pose to pose animation was done somewhat well	The Flipbook with exploration of pose to pose animation was done fairly well	The Flipbook with exploration of pose to pose animation was done very well
Task 5.2a Animation Principle: Bouncing Ball Individual task	The Bouncing ball animation frames shown on paper + Flipbook were done very well	The Bouncing ball animation frames shown on paper + Flipbook were done very well	The Bouncing ball animation frames shown on paper + Flipbook were done very well	The Bouncing ball animation frames shown on paper + Flipbook were done very well	The Bouncing ball animation frames shown on paper + Flipbook were done very well
Tasks 5.2b Animation Principle: Pendulum Individual task	The Pendulum animation frames shown on paper + Flipbook are yet to be done.	The Pendulum animation frames shown on paper + Flipbook were just about done.	The Pendulum animation frames shown on paper + Flipbook were somewhat done.	The Pendulum animation frames shown on paper + Flipbook were fairly done.	The Pendulum animation frames shown on paper + Flipbook were done very well.
Tasks 5.3a Stop Motion Animation Group task	The Stop Motion animation played back on the mobile/computer is yet to be done.	The Stop Motion animation played back on the mobile/computer was just about done.	The Stop Motion animation played back on the mobile/computer was somewhat done.	The Stop Motion animation played back on the mobile/computer was fairly done.	The Stop Motion animation played back on the mobile/computer was done very well
Tasks 5.3b Motion Graphics Group task	The Motion Graphics animation is yet to be done.	The Motion Graphics animation was just about done.	The Motion Graphics animation was somewhat done.	The Motion Graphics animation was fairly done.	The Motion Graphics animation was done very well.
Tasks 5.4a Character Design Individual task	The Character design with different poses and expressions is yet to be done.	The Character design with different poses and expressions was just about done.	The Character design with different poses and expressions was somewhat done.	The Character design with different poses and expressions was fairly done.	The Character design with different poses and expressions was done very well

Assessment Matrix:

Module 6.0: Fundamentals of Sustainability and Design

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 6.1a Observation and Analysis Individual task	Observation and Analysis of the breakfast items at home need to be done	Observation and Analysis of the breakfast items at home were just about done	Observation and Analysis of the breakfast items at home were somewhat done well	Observation and Analysis of the breakfast items at home were fairly done well.	Observation and Analysis of the breakfast items at home were done very well
Task 6.1b Food across Ages Group task	Comparative Chart + Scenario sketches or performing a skit on the subject of Food across ages is not yet done	Comparative Chart + Scenario sketches or performing a skit on the subject of Food across ages was just about done	Comparative Chart + Scenario sketches or performing a skit on the subject of Food across ages was somewhat done	Comparative Chart + Scenario sketches or performing a skit on the subject of Food across ages was fairly done well	Comparative Chart + Scenario sketches or performing a skit on the subject of Food across ages was done very well
Task 6.2a Design for Circular Economy Individual task	Classification of objects at home, and making an object in linear economy be part of circular economy is not yet done	Classification of objects at home, and making an object in linear economy be part of circular economy was just about done	Classification of objects at home, and making an object in linear economy be part of circular economy was somewhat done	Classification of objects at home, and making an object in linear economy be part of circular economy was fairly done well	Classification of objects at home, and making an object in linear economy be part of circular economy was done very well
Task 6.2b Min-map of Pickle Business Group task	The System mind-map of the Pickle Business with many interconnections is not yet done	The System mind-map of the Pickle Business with many interconnections was just about done	The System mind-map of the Pickle Business with many interconnections was somewhat done	The System mind-map of the Pickle Business with many interconnections was fairly done well	The System mind-map of the Pickle Business with many interconnections was done very well
Task 6.3a Analysis of Mitti-Cool: Individual task	The summary of the findings and analysis of MittiCool is not yet done	The summary of the findings and analysis of MittiCool was just about done	The summary of the findings and analysis of MittiCool was somewhat done	The summary of the findings and analysis of MittiCool was fairly done well	The summary of the findings and analysis of MittiCool was done very well
Task 6.3b Redesigned Product Presentation: Group task	The redesigned product with strategies and technologies for sustainable design is not yet done	The redesigned product with strategies and technologies for sustainable design was just about done	The redesigned product with strategies and technologies for sustainable design was somewhat done	The redesigned product with strategies and technologies for sustainable design was fairly done well	The redesigned product presented with strategies and technologies for sustainable design was done very well

Assessment Matrix:

Module 7.0: Introduction to Prototyping

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 7.1 Paper Prototype: Group task	The presentation/demonstration of the concept through paper prototype to the class to get feedback is not yet done	The presentation/demonstration of the concept through paper prototype to the class to get feedback was just about done	The presentation/demonstration of the concept through paper prototype to the class to get feedback was somewhat done	The presentation/demonstration of the concept through paper prototype to the class to get feedback was fairly done well	The presentation/demonstration of the concept through paper prototype to the class to get feedback was done very well
Task 7.2 Scenario as Prototype: Group task	The presentation of using a scenario prototype to demonstrate a concept and get feedback is not yet done	The presentation of using a scenario prototype to demonstrate a concept and get feedback was just about done	The presentation of using a scenario prototype to demonstrate a concept and get feedback was somewhat done	The presentation of using a scenario prototype to demonstrate a concept and get feedback was fairly done well	The presentation of using a scenario prototype to demonstrate a concept and get feedback was done very well
Task 7.3 Animatics as Prototype: Individual Task	The presentation of using animatic prototype to demonstrate a moving-image concept and get feedback is not yet done	The presentation of using animatic prototype to demonstrate a moving-image concept and get feedback was just about done	The presentation of using animatic prototype to demonstrate a moving-image concept and get feedback was somewhat done	The presentation of using animatic prototype to demonstrate a moving-image concept and get feedback was fairly done well	The presentation of using animatic prototype to demonstrate a moving-image concept and get feedback was done very well
Task 7.4 3D Prototyping: Group + Individual task	The presentation of the 3D prototypes in both cardboard and Clay/Plasticine are yet to be done	The presentation of the 3D prototypes in both cardboard and Clay/Plasticine were just about done	The presentation of the 3D prototypes in both cardboard and Clay/Plasticine were somewhat done	The presentation of the 3D prototypes in both cardboard and Clay/Plasticine were fairly done well	The presentation of the 3D prototypes in both cardboard and Clay/Plasticine were done well

Assessment Matrix:

Module 8.0: Design Project with focus on Prototyping and Feedback

Achievement Levels	1-2 BEGINNING	3-4 DEVELOPING	5-6 PROMISING	7-8 PROFICIENT	9-10 EXCELLENT
Task 8.1 Understand & Analyse the problem to be solved: Group + Individual task	The presentation of the chosen problem area and its analysis with the identified design opportunities is not yet done	The presentation of the chosen problem area and its analysis with the identified design opportunities was just about done	The presentation of the chosen problem area and its analysis with the identified design opportunities was somewhat done	The presentation of the chosen problem area and its analysis with the identified design opportunities was fairly done well	The presentation of the chosen problem area and its analysis with the identified design opportunities was done very well
Task 8.2 Ideation and Alternate Concepts: Group + Individual task	Needs to complete the presentation of the alternate sketches as well as the short-listed idea	Completes a basic sketchy presentation of the alternate sketches as well as the short-listed idea	Completes an average presentation of the alternate sketches as well as the short-listed idea	Completes a good presentation of the alternate sketches as well as the short-listed idea	Completes an elaborate and detailed presentation of the alternate sketches as well as the short-listed idea
Task 8.3 Detailing, Prototyping & Feedback: Group + Individual task	Needs to complete the presentation of detailing, Prototype and Feedback of solution to the problem	Makes a basic presentation of detailing, Prototype and Feedback of solution to the problem	Makes an average presentation of detailing, Prototype and Feedback of solution to the problem	Makes a good presentation of detailing, Prototype and Feedback of solution to the problem	Makes a very appropriate presentation of detailing, Prototype and Feedback of solution to the problem
Task 8.4 Final Presentation + Documentation: Group + Individual task	Needs to complete the presentation beyond title and team members	A limited presentation covering only a brief summary	An average presentation with some clarity in the flow of ideas and stages undertaken in the project	A good presentation with a logical structure of ideas and stages undertaken in the project. No mention of future suggestions.	A detailed and effective presentation covering all stages of the project including user feedback and future suggestions.

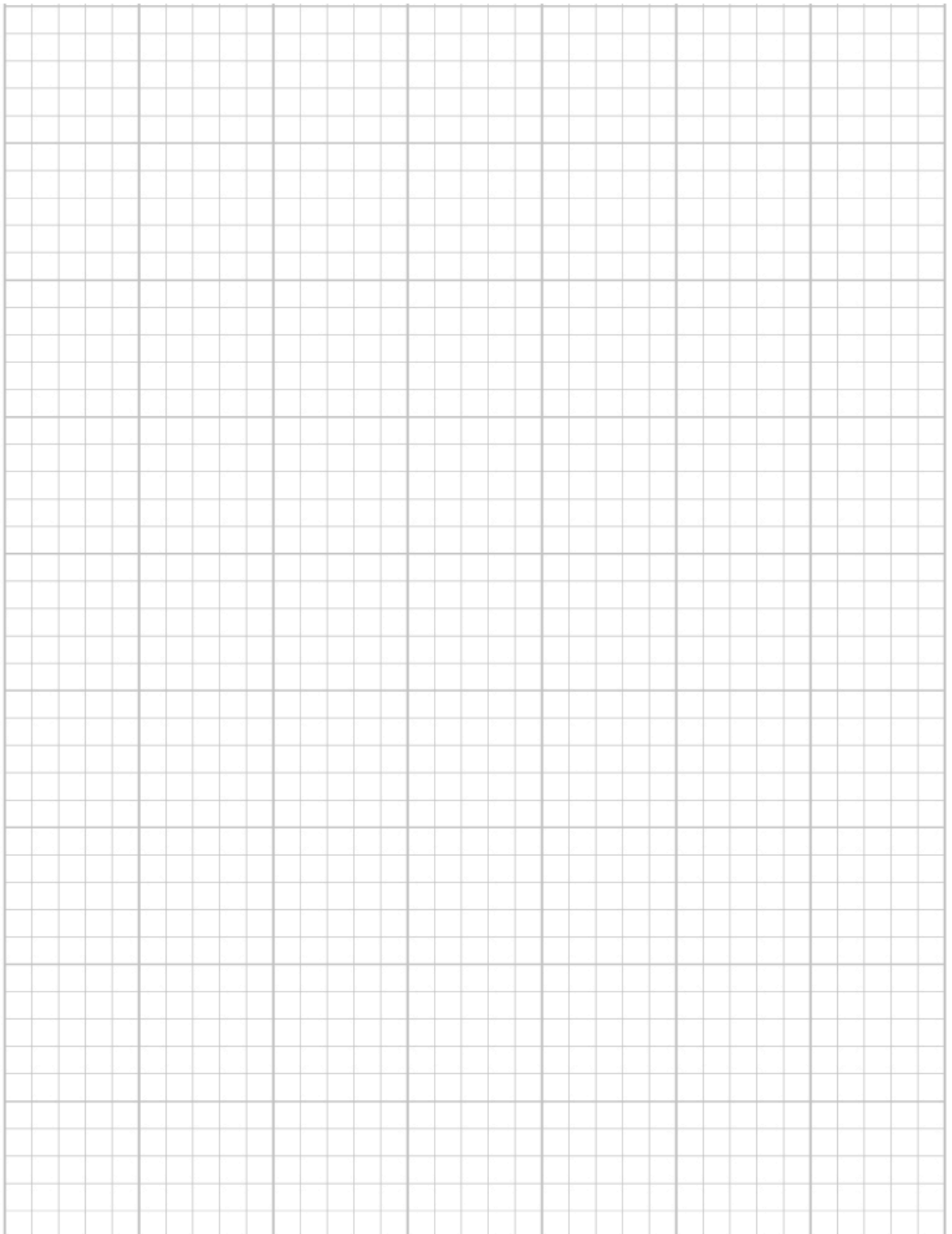
Student Feedback Form:

NAME	CLASS	MODULE	TASK	ACTIVITY	DATE
Give a rating for each of the statements below: - by placing a tick mark in the corresponding box.					
	INADEQUATE	FAIR	GOOD	VERY GOOD	EXCEPTIONAL
Level of effort you put into activity					
Your level of knowledge at the start of the activity					
Your level of knowledge at the end of the activity					
Understanding of exposure slides/video					
	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
I enjoyed doing the activity					
I understood the design principles while doing the task					
I liked trying out different creative variations					
I can apply design thinking process to problem solving					
I enjoyed working in collaboration with my group					
Additional Comments:					
What I liked the most:					
What can be done better:					
What can be Added/Changed:					

Teacher Feedback Form:

NAME	CLASS	MODULE	TASK	ACTIVITY	DATE
Comments: - place a tick mark in the corresponding box.					
	COMMENTS				
It was easy to deliver the exposure modules:	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
Your comments:					
It was easy/satisfying/enjoyable to conduct the task activities:	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
Your comments:					
No issues were faced with regard to assessment of the task:	STRONGLY DISAGREE	DISAGREE	NEUTRAL	AGREE	STRONGLY AGREE
Your comments:					
Common questions posed by the students:					
Suggestions for improving the task or suggestion of another task:					
Other suggestions, if any:					

Grid Layout for Sketching and taking notes:



Credits

Acknowledgement and Credits:

Ministry of Education:

Smt. Anita Karwal, Secretary, School Education, N Delhi

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Additional Credits:

Dr. Ajanta Sen, Founder and Director, Jellow Labs (content for the module on 'Sustainability and Design')
Shweta Pathare, Radhika Gohil and Niraja Joglekar, Design Associates, IDC, IIT Bombay (the Cover page, Module breaker pages, Module header illustrations and all the Icons)
Sanmati Hosure, Project Staff, IDC School of Design, IIT Bombay (for checking grammar, spelling and formats)

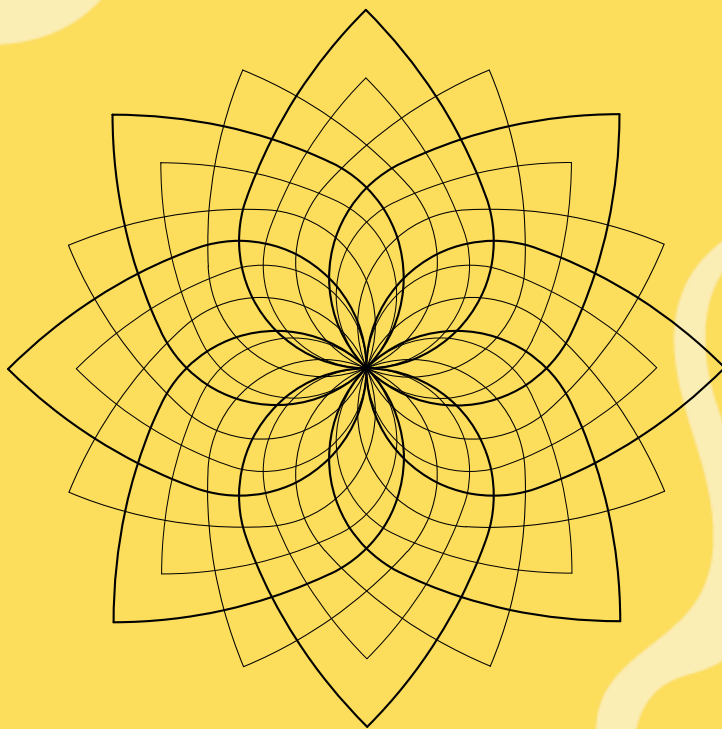
Design Thinking and Innovation

for Grade 10, Semester 1 and 2

Taskbook

2022

Hope you enjoyed the Tasks !!!



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