Human Informed Consent Form

Instructions to the Student Researcher(s): An informed consent/assent/permission form should be developed in consultation with the Adult Sponsor, Designated Supervisor or Qualified Scientist.

This form is used to provide information to the research participant (or parent/guardian) and to document written informed consent, minor assent, and/or parental permission.

- When written documentation is required, the researcher keeps the original, signed form.
- Students may use this sample form or may copy ALL elements of it into a new document.

If the form is serving to document parental permission, a copy of any survey or questionnaire must be attached.

Student Researcher(s): PAU CHEN YOU, SOH SHENG JUN

Title of Project: HANDETECT

I am asking for your voluntary participation in my science fair project. Please read the following information about the project. If you would like to participate, please sign in the appropriate area below.

Purpose of the project:

The purpose of this project is to develop an Al-powered handwriting analysis system for the early detection and monitoring of movement disorders. By collecting handwriting data from individuals diagnosed with movement disorders, we aim to enhance the accuracy of our Al model and algorithm.

If you participate, you will be asked to:

Complete a series of handwriting tasks based on given samples.

Consent to the use of your handwriting data for research purposes within the scope of the HANDETECT project.

Time required for participation:

10 Minutes

Potential Risks of Study:

The handwriting assessment tasks involve simple drawing exercises, which are low-risk activities. However, it is possible that some participants may experience mild discomfort or fatigue during the assessment.

Benefits:

By participating in this project, you will not receive any direct medical benefits. However, your contribution will help advance research in movement disorders and potentially contribute to the development of improved diagnostic tools and treatments for individuals suffering from these conditions.

How confidentiality will be maintained:

All data collected during this study will be kept strictly confidential. Your participation and any information you provide will be used for research purposes only and will not be shared or disclosed to any third parties.

If you have any questions about this study, feel free to contact: PAU CHEN YOU, CYCOOL029@GMAIL.COM

Adult Sponsor/QS/DS: MS HEAH WHEY CHENG Phone/email: +6017-628 4060

Voluntary Participation:

Participation in this study is completely voluntary. If you decide not to participate there will not be negative consequences. Please be aware that if you decide to participate, you may stop participating at any time and you may decide not to answer any specific question.

By signing this form I am attesting that I have read and understand the information above and I freely give my consent/assent to participate or permission for my child to participate.

Adult Informed Consent or	Minor Assent
Research Participant Name:	
Date Reviewed & Signed: (mm/dd/yy)	

HANDETECT Project

Pau Chen You | Soh Sheng Jun Chung Ling High School, Penang

Dear Participant,

Thank you for participating in our Handwriting Assessment for Movement Disorder Patients. Your valuable contribution to this research will help us advance our Al-powered handwriting analysis system for the early detection and monitoring of movement disorders.

You will be asked to complete the following tasks in a relaxed manner. Each task has a designated section in this assessment:

- Archimedes Spiral
- Simple House
- Running Stickman
- Simple Wave Curves
- L-Loops
- Straight Lines
- Simple Car

For each task, detailed instructions will be given with a sample as a reference. Please review the sample carefully before attempting each task.

Please take your time and complete the assessment at your own pace. We understand that you may need to take breaks or rest during the assessment, and that is completely fine. Your comfort and well-being are our top priorities.

All information provided and the results of the assessment will be kept strictly confidential. Your data will only be used for research purposes within the scope of this project.

Thank you once again for your participation. Your involvement is very helpful to our project. We appreciate your cooperation and wish you a comfortable and enjoyable assessment experience.

Best regards,

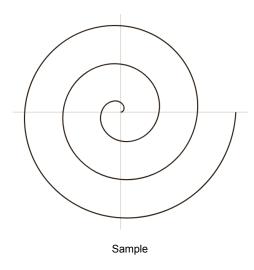
Pau Chen You Soh Sheng Jun Chung Ling High School

HANDETECT Project

Pau Chen You | Soh Sheng Jun Chung Ling High School, Penang

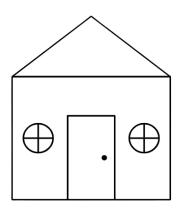
Task 1: Archimedes Spiral

In this task, you will draw an Archimedes spiral in one continuous motion using a black ink pen. The objective is to complete three rounds of the spiral, following the sample shown below. Start from the centre point of the space given, aiming for a smooth and fluid motion. Once you have completed the three rounds, lift the pen from the paper at a suitable endpoint.



Task 2: Simple House

In this task, you will draw a simple house, with one door, two windows, a foundation and a roof. Start with a basic foundation and then add triangular shapes above it for the roof. Continue by drawing the walls, the windows and the door. Feel free to add as many or as few details as you feel comfortable with.



HANDETECT Project

Pau Chen You | Soh Sheng Jun Chung Ling High School, Penang

Sample

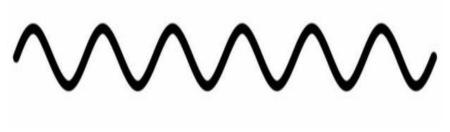
Task 3: Running Stickman

In this task, you will draw a stickman in a running state as shown in the sample below. The running stickman should be drawn in a dynamic posture, with one leg lifted forward, and the other leg trailing behind. The arms should be positioned with one arm bent at the elbow and the other arm stretched backwards. Keep the stickman's body simple.



Task 4: Simple Wave Curves

In this task, you will draw smooth and continuous wave curves according to the sample below. You can draw as many waves as you can within the space given, as long as it is drawn in one continuous drawing. Continue drawing more curves, connecting them to form a flowing wave pattern.



Sample

HANDETECT Project

Pau Chen You | Soh Sheng Jun Chung Ling High School, Penang

Task 5: L-loops

In this task, you will draw script I-loops according to the sample below. The I-loop is a continuous stroke that resembles the shape of the letter "\epsilon" in a flowing manner. There is no limit to the number of I-loops you can draw within the space given. Make sure all of them are drawn in one continuous drawing.



Sample

Task 6: Straight Lines

In this task, you need to draw one vertical line and one horizontal line in a relaxing manner. There will be a designated starting point and an ending point for each line. Connect the points with a vertical or horizontal line.

Horizontal Line

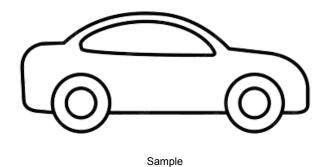
Vertical Line

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Task 7: Simple Car

In this task, you will need to draw a simple car following the provided sample. Begin by sketching the main body of the car. Next, add four wheels to the car. Connect the main body with a small roof on top of the car. Feel free to personalise your car by adding more details if you like. Enjoy the drawing and have fun!



Participant Information

Age	
Gender	Male / Female
Disease Name (i.e. Parkinson's Disease, Essential Tremor, etc)	
Duration of Symptoms (i.e. Two years, Five months, etc)	
Stage of Disease (i.e. 1, 2, 3, 4, 5; or any other specific disease severity)	
Handedness	Left-handed / Right-handed
Family History of Disease	

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Task 6:		
	Horizontal Line	Vertical Line
Task 7:		
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