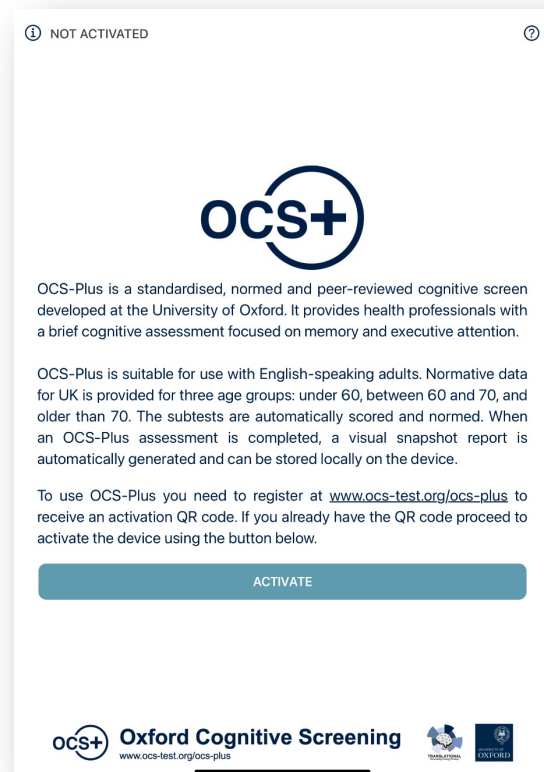




**USER GUIDE**

# Activating your device

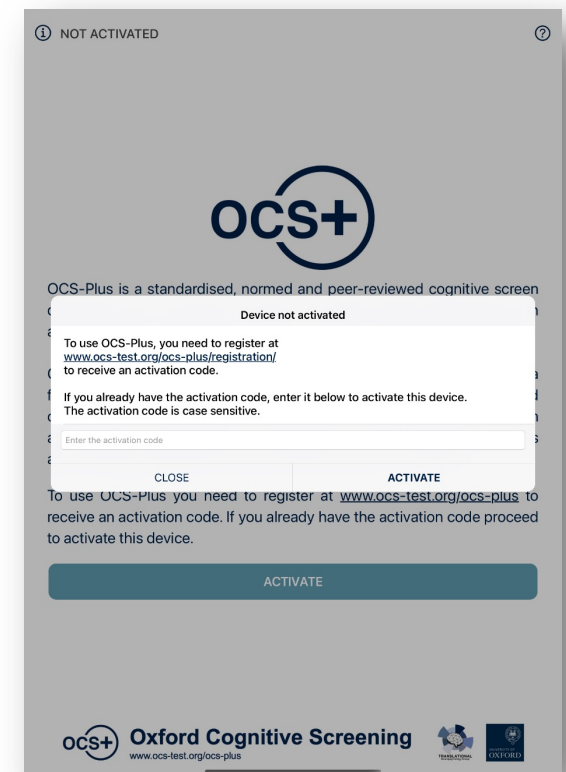
Use the activation code sent to you to activate your device



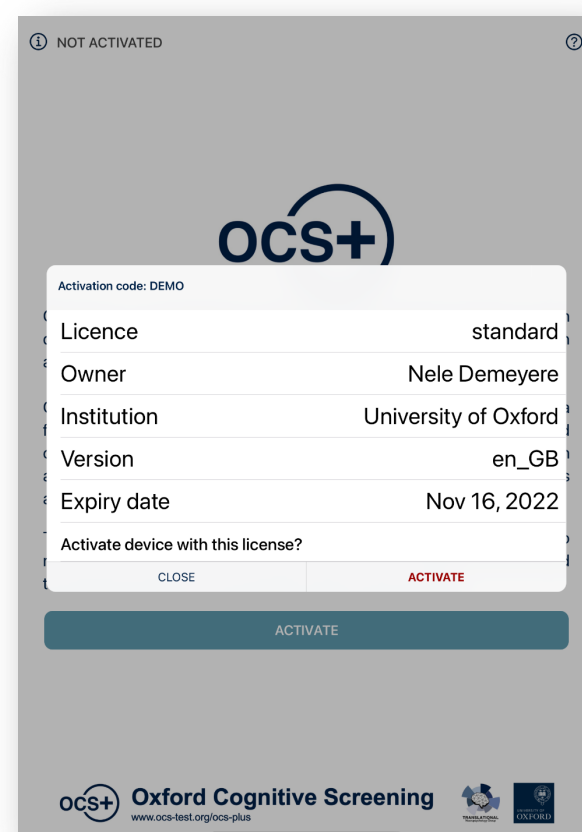
Device not activated

Initiate activation

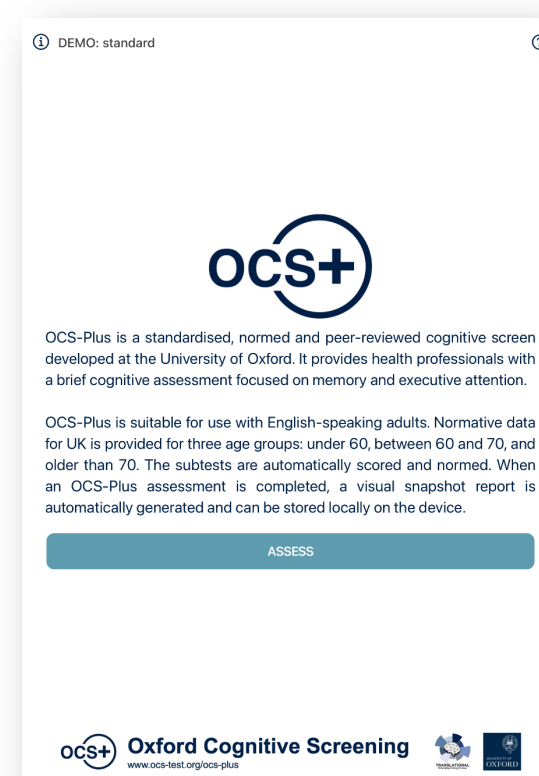
Enter the activation code



Activation licence



Device activated



You can now run assessments

# Starting an assessment

Enter the **ID** of the respondent

Enter the **age** of the respondent – used to normalize the task scores

**Start** the assessment when ready

Go back to  
home screen

Enter the ID for  
the respondent

< DEMO: standard ?

Assessment info

**Respondent ID**  
*This identifier should be a unique respondent code which does not contain any identifiable information. It is your responsibility to ensure all ethical protocols and data protection regulations are adhered to.*

Enter respondent ID here

**Respondent age**  
*This will be used to select the age appropriate normative cut-offs for the report.*

Enter respondent age here

age classified as

START ASSESSMENT

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Access the  
User Guide

Enter the age of  
the respondent

Confirm you agree with  
the **privacy notice**

< DEMO: standard ?

Under the standard user licence respondents' cognitive data cannot be uploaded and only a local copy of the assessment and its accompanying visual snapshot report are stored on the device. The respondent's performance is compared to normative cut-offs within the local version of the app. At the end of the assessment, the assessor is presented with a graphical summary of performance, which can be saved as an image locally and then printed/emailed/shared by the assessor via their professional accounts. Only up to 8 local sessions can be saved at any time. Further assessments require deleting previously stored local assessments within the app. If you require the data to be saved or uploaded, please request a RESEARCH licence. For this, or any other questions or issues with downloading or registering on the OCS-Plus app, please contact us on [ocsplus@psy.ox.ac.uk](mailto:ocsplus@psy.ox.ac.uk).

PROCEED

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# Instruction screens

Each task starts with an instructions screen

**Do not show** the instruction screens to the respondent

**Read out** the instructions displayed in the middle

**Remind** yourself of the task with **assessor instructions** at the bottom

Tap **START** when ready for the task

ID of the respondent

**Show** the next task screens to respondent when this is displayed

**Do not show** the next task screens to respondent when this is displayed

**Stylus** recommended for this task



PRACTICE

PICTURE NAMING TEST 1/12

You will see a series of pictures on this screen. Your task is to tell me what each one is.

START

Show each picture on the screen to the respondent and ask them to name it.  
Use the buttons at the top to score their answer:  
✓ CORRECT answer  
× WRONG answer or NO answer

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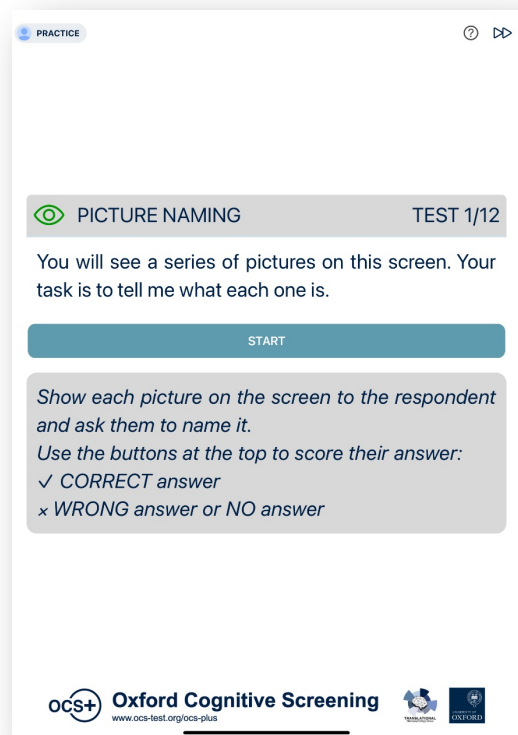
Tap to skip a task

Tap to pause the assessment

For respondent - read out loud

Only for you





# PICTURE NAMING

- you score the answers -



**Show** the task screens to the respondent  
**Read out** the question at the top  
**Score** the accuracy of the respondent answer

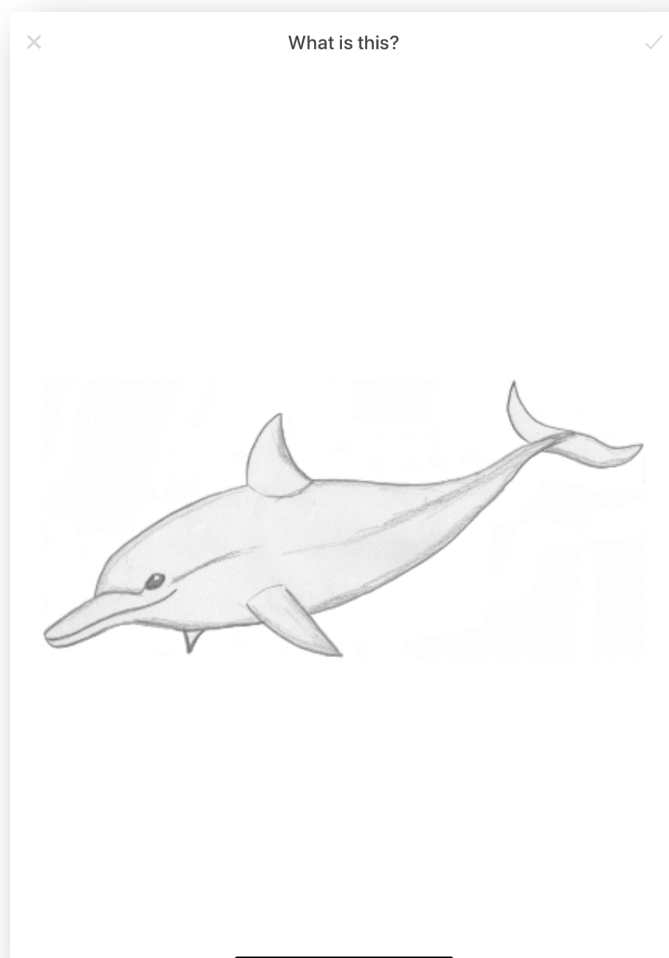
*Respondent gives their answers **unaided**.*



Tap this for  
**wrong** or  
**no answer**



Tap this for  
**correct** answer



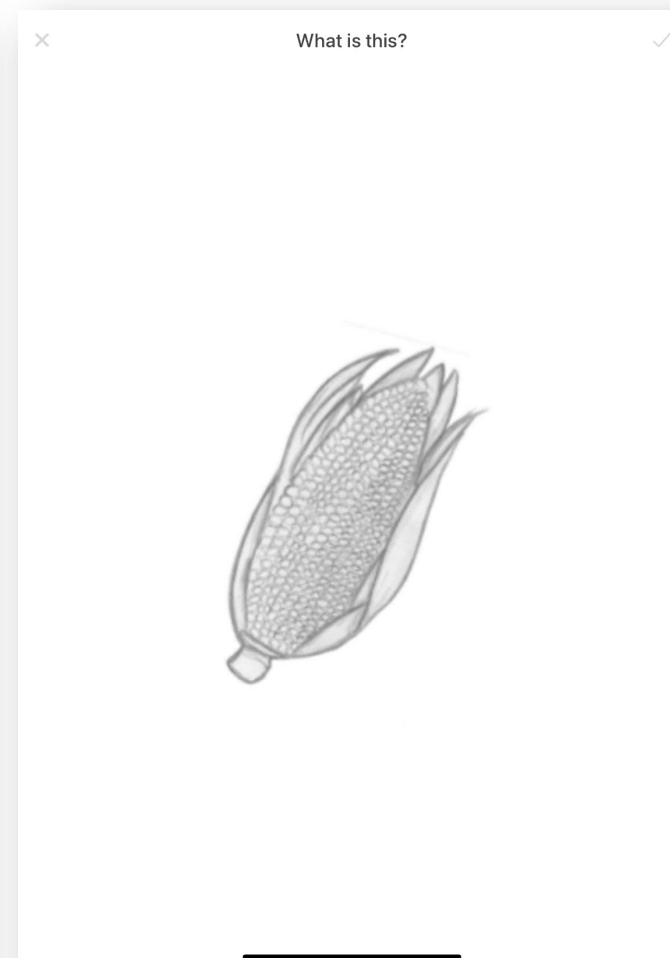
Correct answer: **dolphin**

Acceptable answers:  
**bottle nose dolphin**



Correct answer: **kangaroo**

Acceptable answers:  
**wallaby**



Correct answer: **corn cob**

Acceptable answers:  
**corn, corn on the cob**



Correct answer: **cherries**

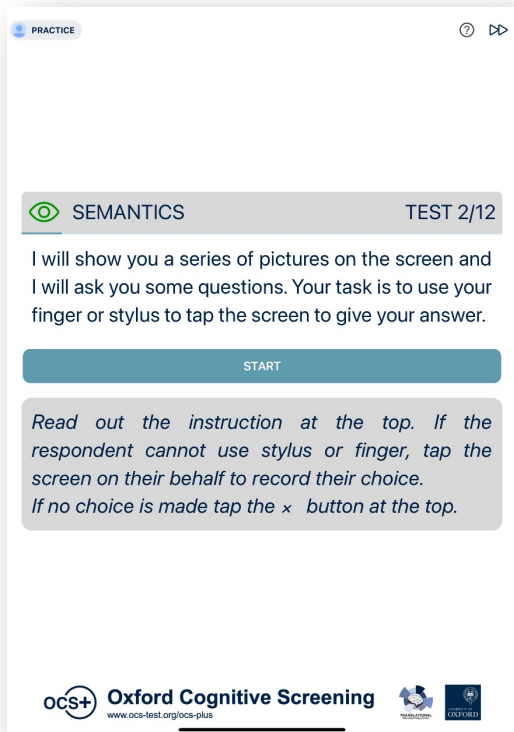
Acceptable answers:  
**pair of cherries, 2 cherries**

Example wrong answers:  
**fish, whale**

Example wrong answers:  
**animal, rabbit**


Example wrong answers:  
**tulip, flower bud**

Example wrong answers:  
**fruit, apples**

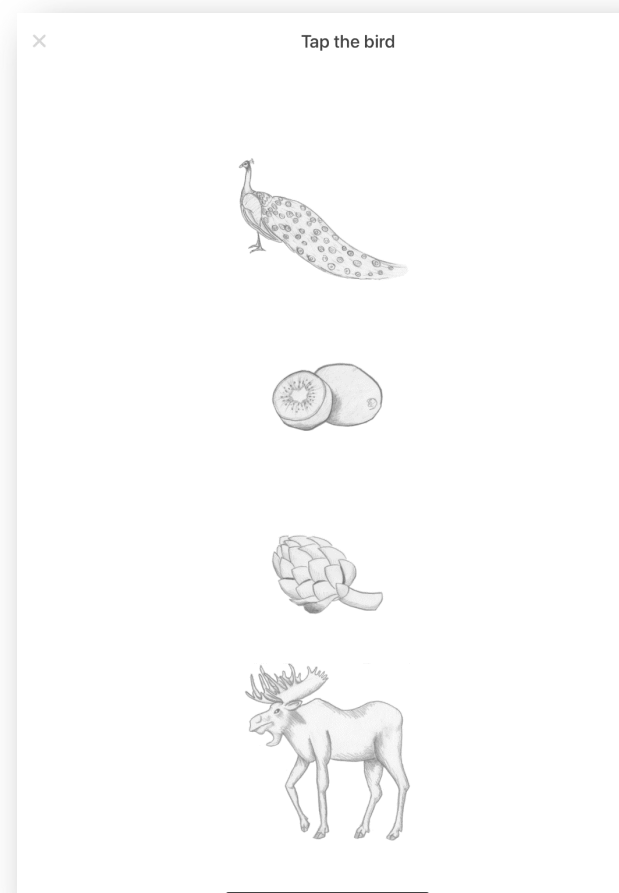
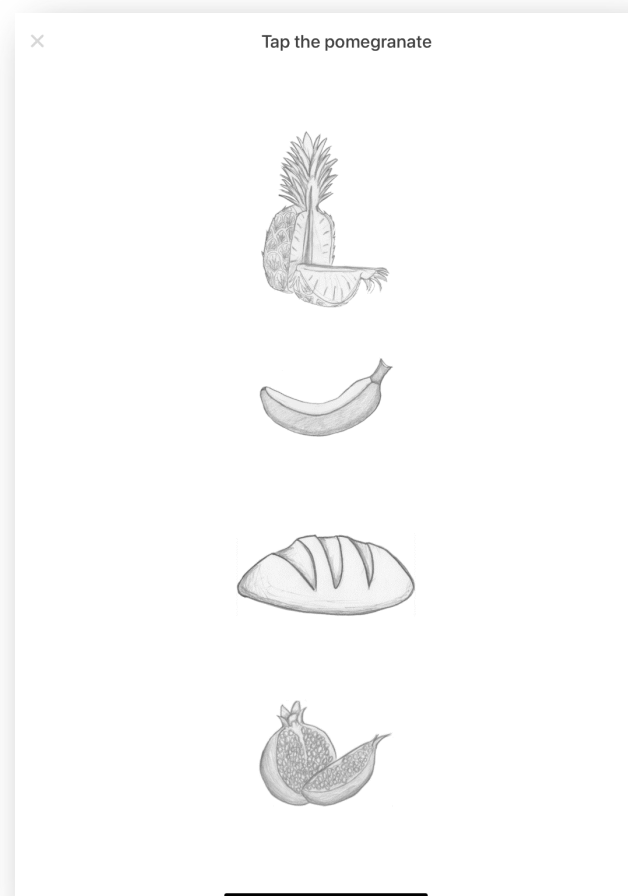
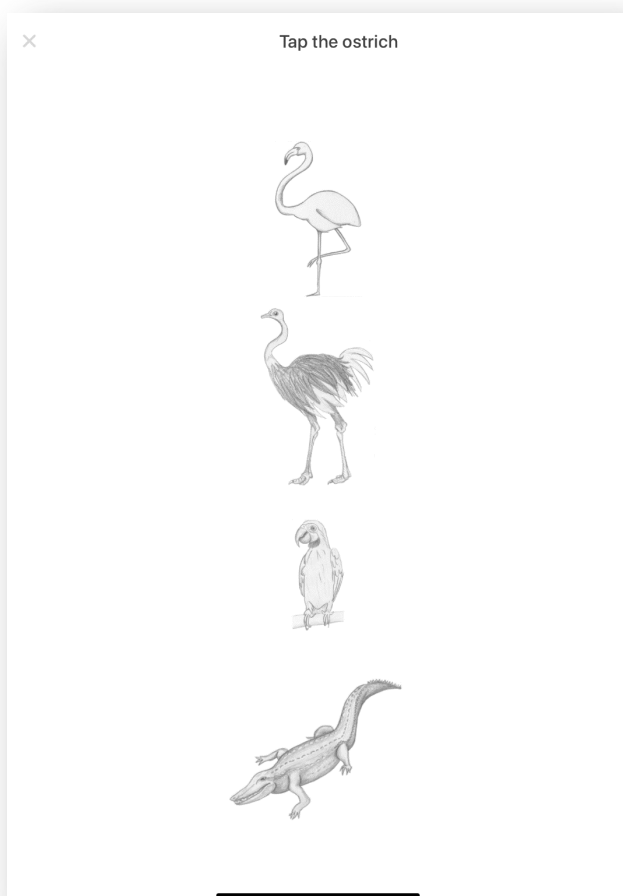


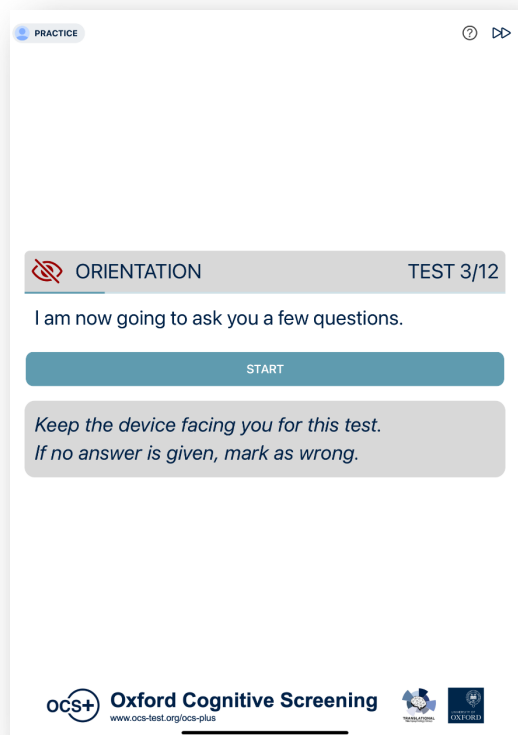
# SEMANTICS

- automatically scored -

 **Show** the task screens to the respondent  
**Read out** the question at the top  
**Prompt** respondent to **tap** to select their answer  
  
**Respondent chooses their answer *unaided***


✕ Tap this for  
**no answer**

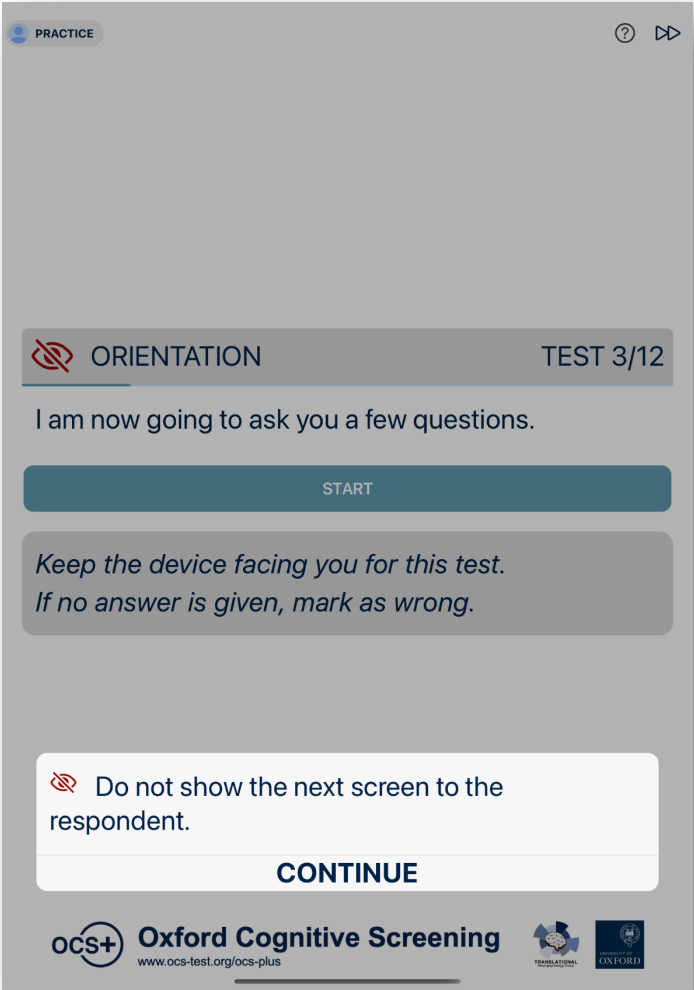




# ORIENTATION

- you score the answers -

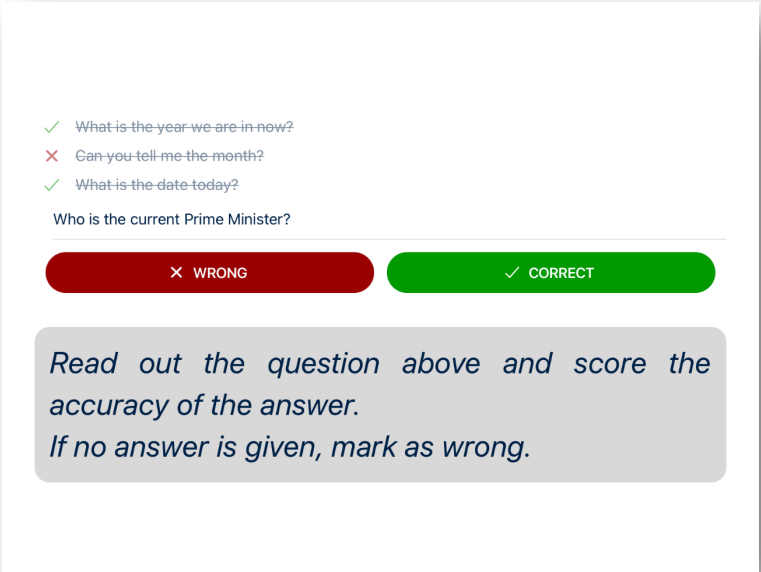
 **Do not show** the task screen to the respondent  
**Read out** the questions displayed  
**Score** respondent answer  
 Respondent gives their answers **unaided**.



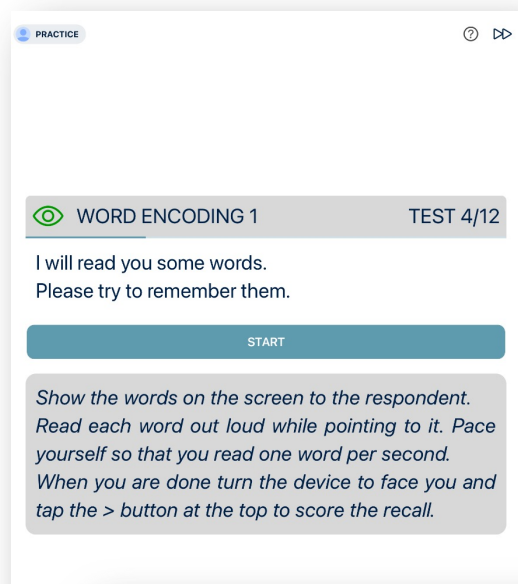
- You** must know the correct answers for all questions
- current date of the month
  - current month
  - current year
  - the name of the current Prime Minister

← Ensure the respondent is **not shown** the screen before continuing

Tap this for  
**wrong** or  
**no answer**



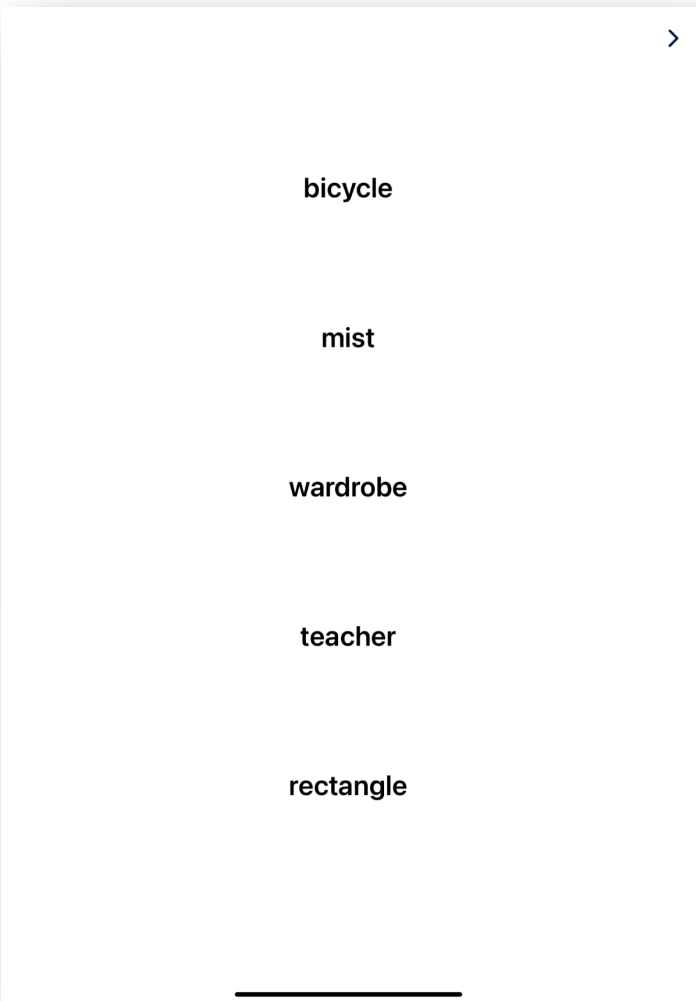
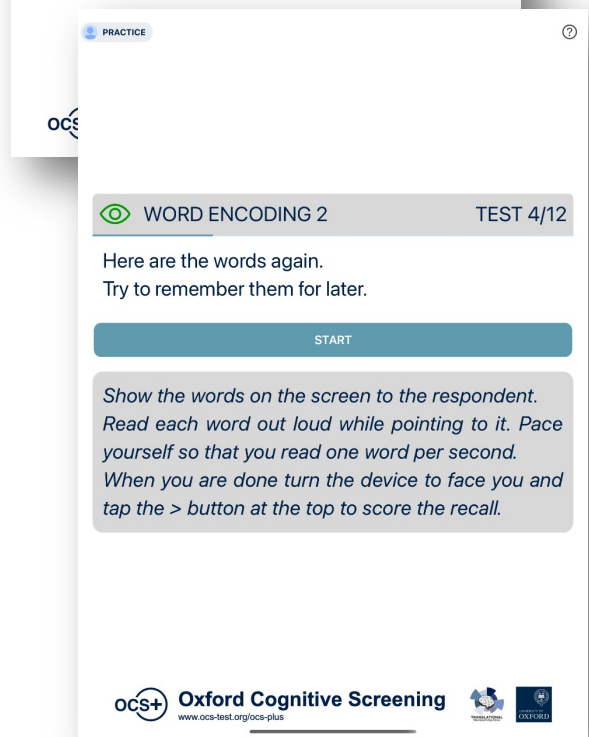
Tap this for  
**correct** answer




# WORD ENCODING 1 & 2

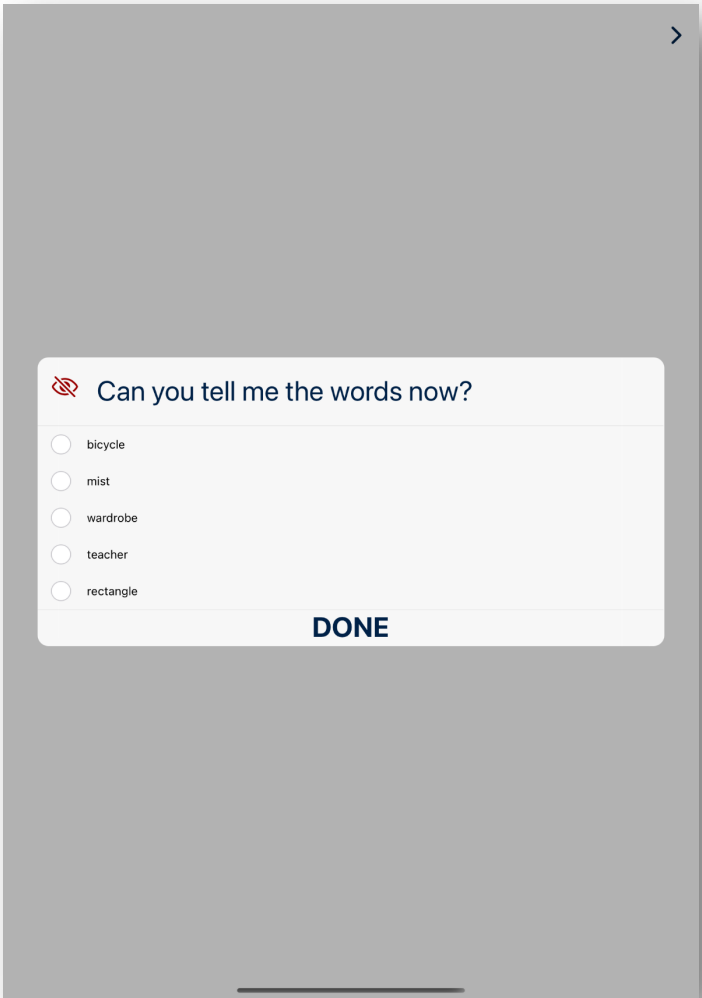
- you score the answers -

 **Show** this screen to the respondent  
**Read out the words *pointing* to each word**

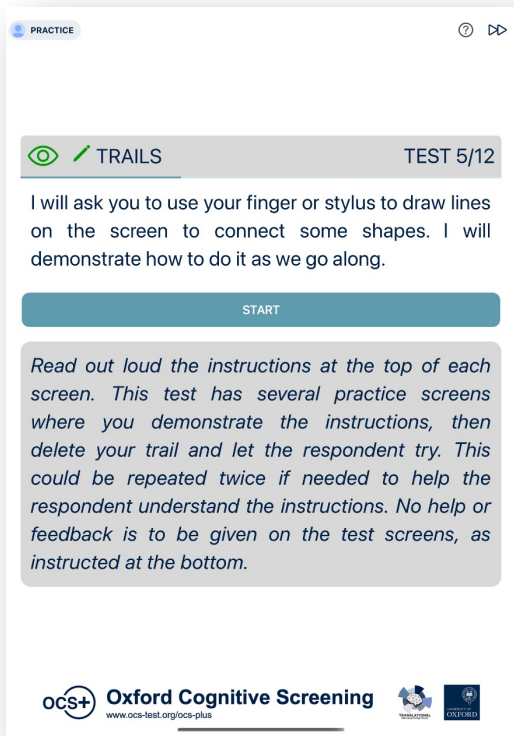


Tap to move to next screen

 **Do not show** this screen to the respondent  
**Read out the question at the top**  
**Tap the checkbox for each word correctly recalled**  
**Respondent gives their answers *unaided*.**







# TRAILS

- Automatically scored -



**Show** the task screens to the respondent

**Read out** the instruction at the top



**Follow** the assessor instructions at the bottom

Use of a **stylus** is recommended



Tap this to clear trails during demonstration and practice



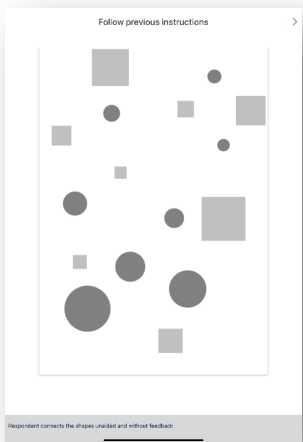
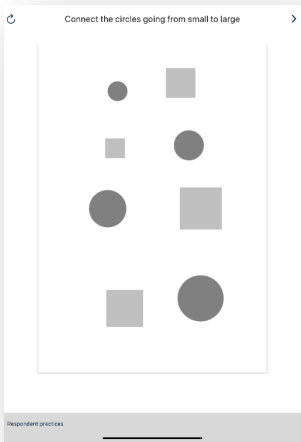
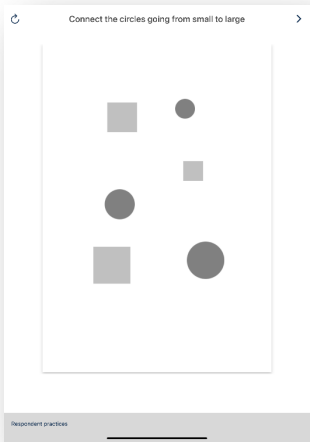
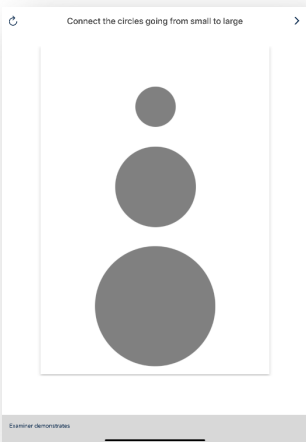
Tap this to move to next screen

**DEMONSTRATION**  
- you demonstrate -

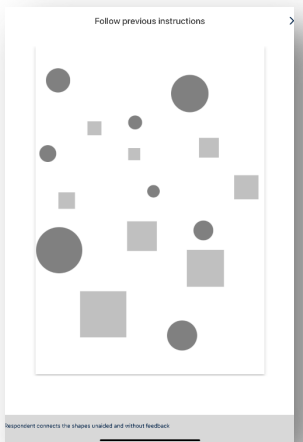
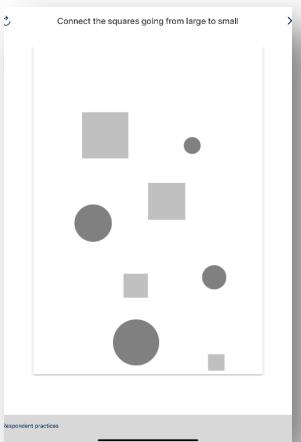
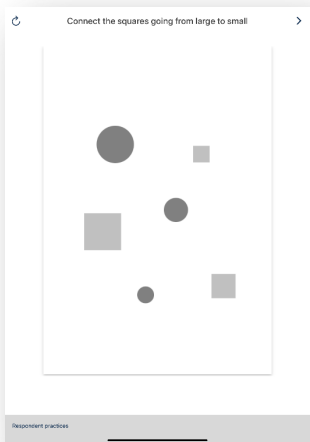
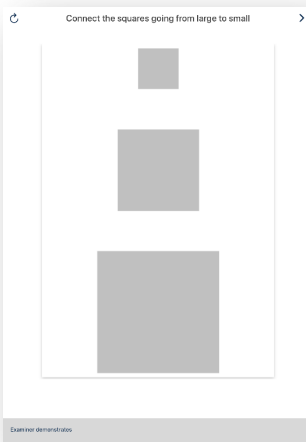
**RESPONDENT PRACTICE**  
- max twice -

**TEST**  
- unaided, no feedback -

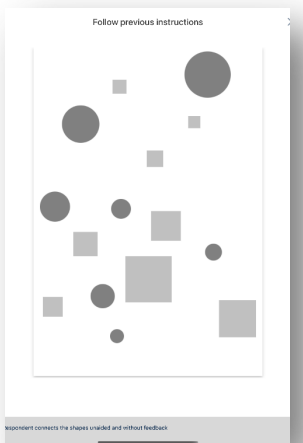
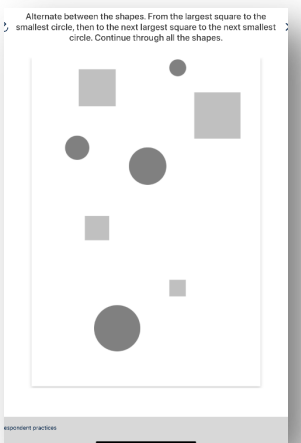
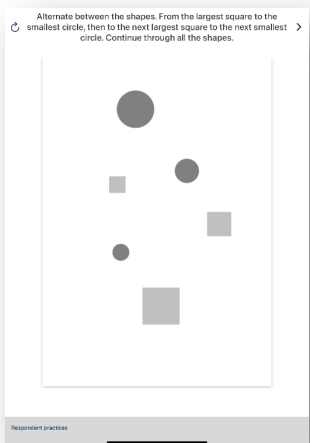
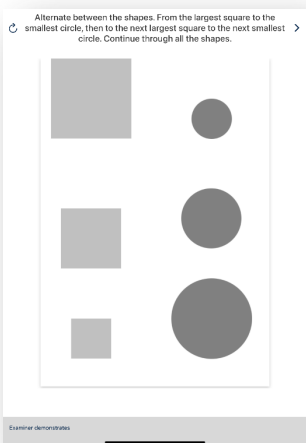
## Circles trails

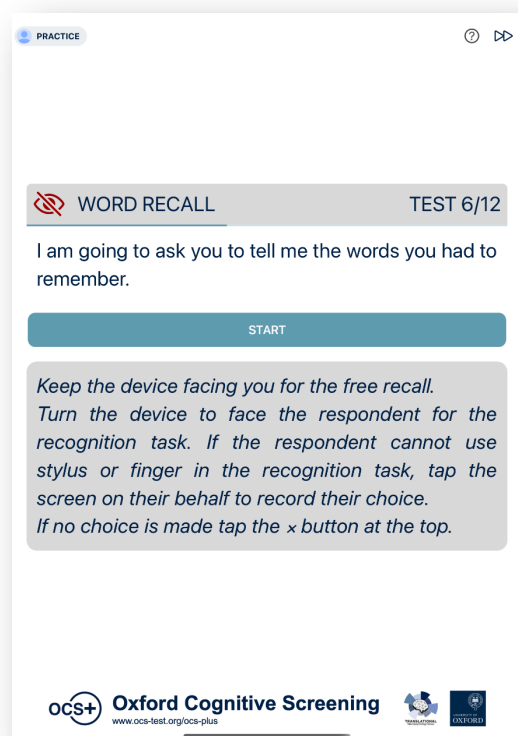


## Squares trails



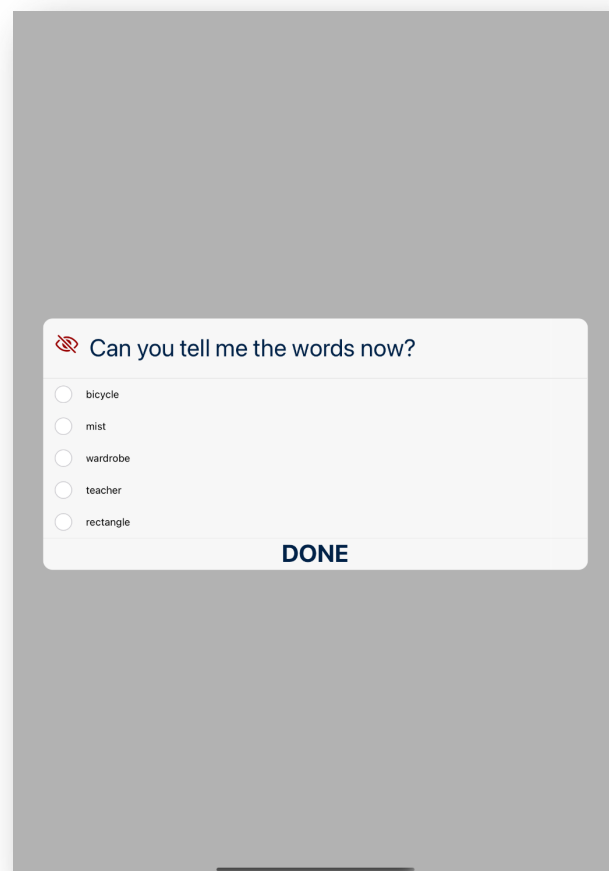
## Mixed trails






## WORD RECALL - free recall

- you score the answers -

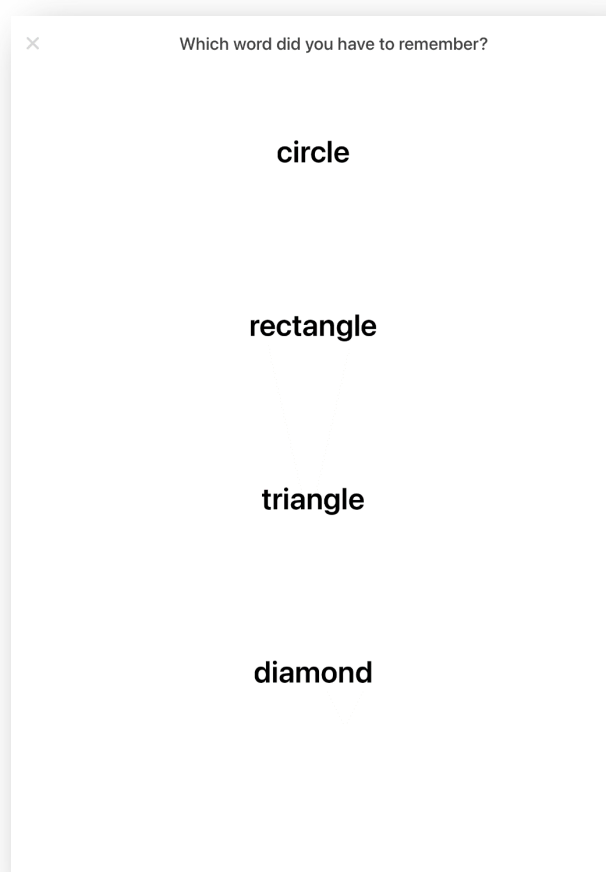



 **Do not show** this screen to the respondent  
**Read out** the question  
**Tap** the checkbox for each word correctly recalled

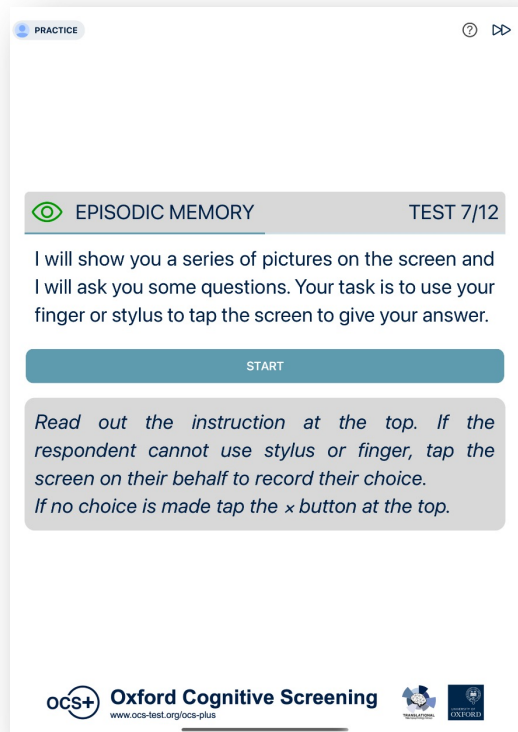
Respondent gives their answers **unaided**.

## WORD RECALL - recognition

- automatically scored -



 Recognition **automatically** displayed only for the words not correctly recalled  
**Show** the screen to the respondent  
**Read out loud** the question  
**Prompt** them to **tap** to select the answer  
**Read out loud** the words  
Respondent chooses their answer **unaided**



# EPISODIC MEMORY

- automatically scored -



**Show** the task screens to the respondent

**Read out** the question at the top

**Prompt** respondent to **tap** to select their answer

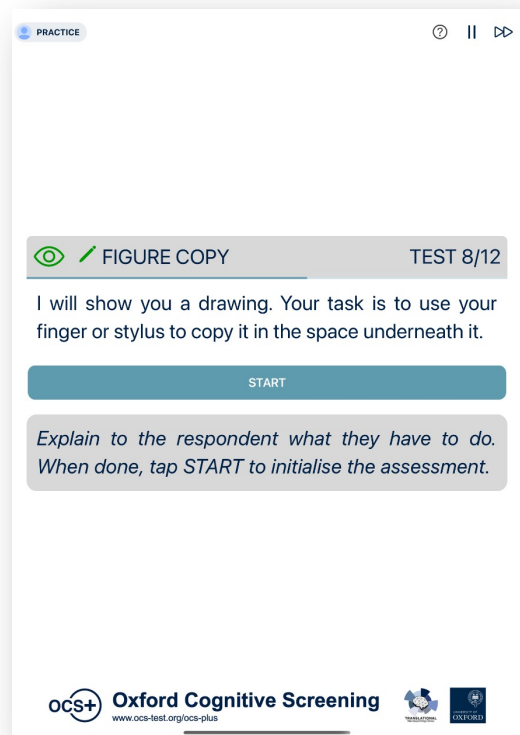
**Read out loud** the words

Respondent chooses their answer **unaided**



Tap this for  
**no answer**





## FIGURE COPY

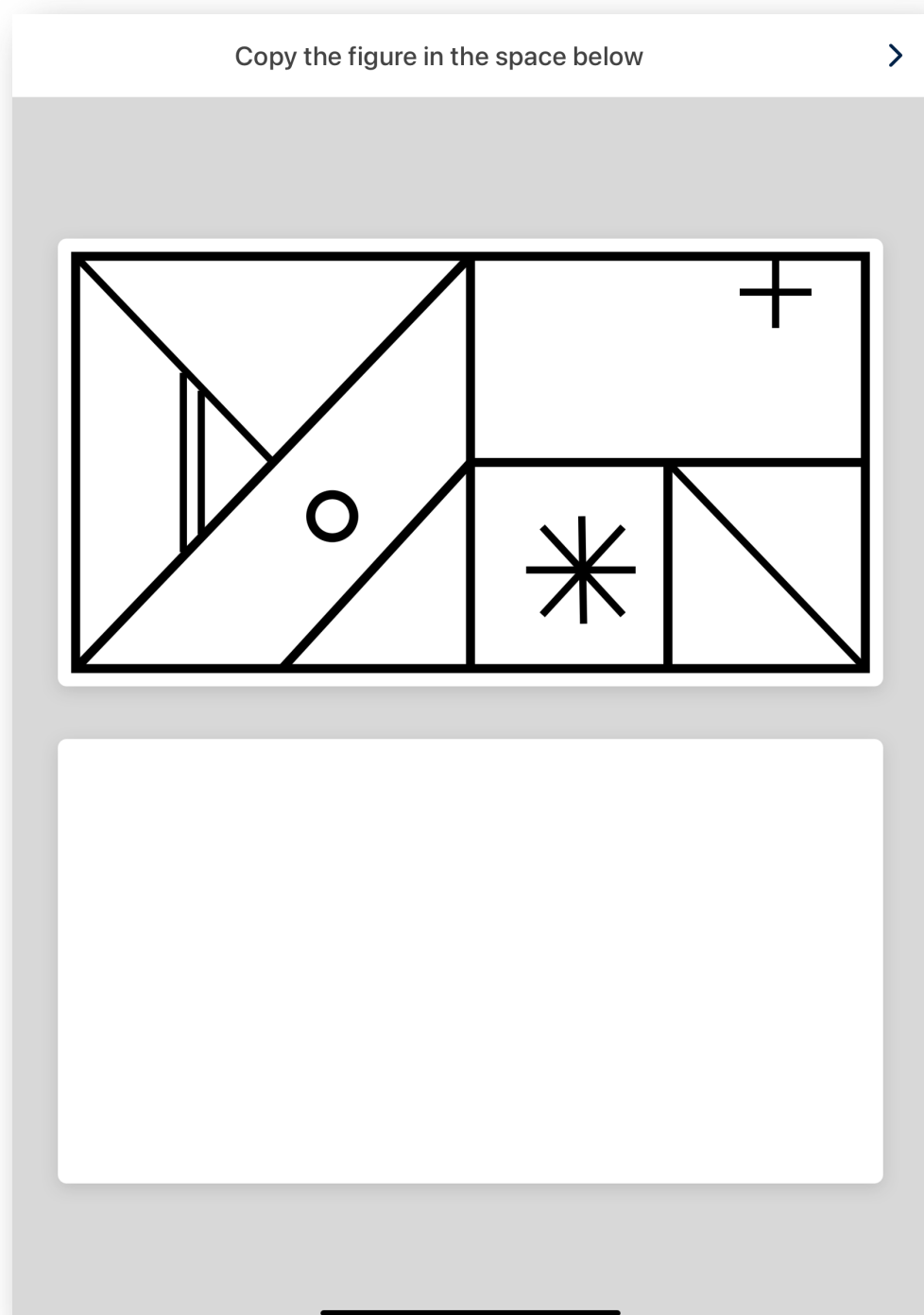
- currently not **automatically** scored -



**Show** the task screen to the respondent  
**Read out** the prompt at the top while  
**pointing** to the figure



Use of **stylus** is recommended  
Respondent copies the drawing **unaided**  
**Do not correct** them if they use the border  
of the canvas area as a border for their drawing

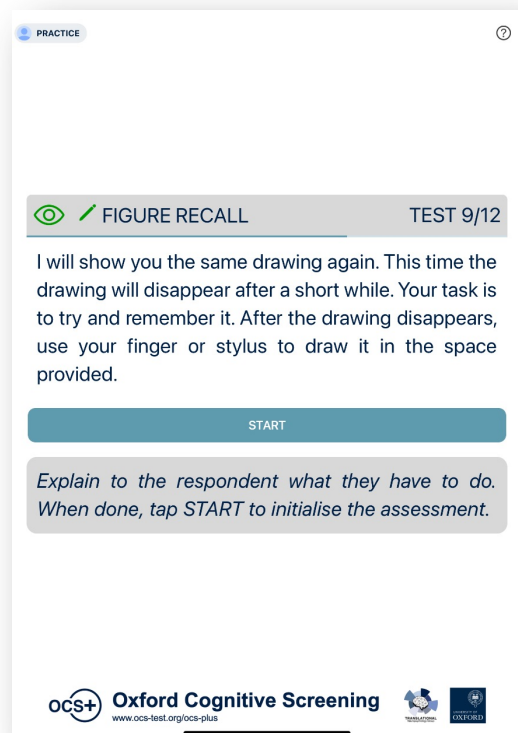


Tap to complete the task  
when respondent indicates the  
drawing is finished



Respondent uses their finger  
or a stylus to draw on this  
canvas a copy of the figure





## FIGURE RECALL

- currently not **automatically** scored -



**Show** the figure to the respondent

*The figure is only displayed for **2 seconds***

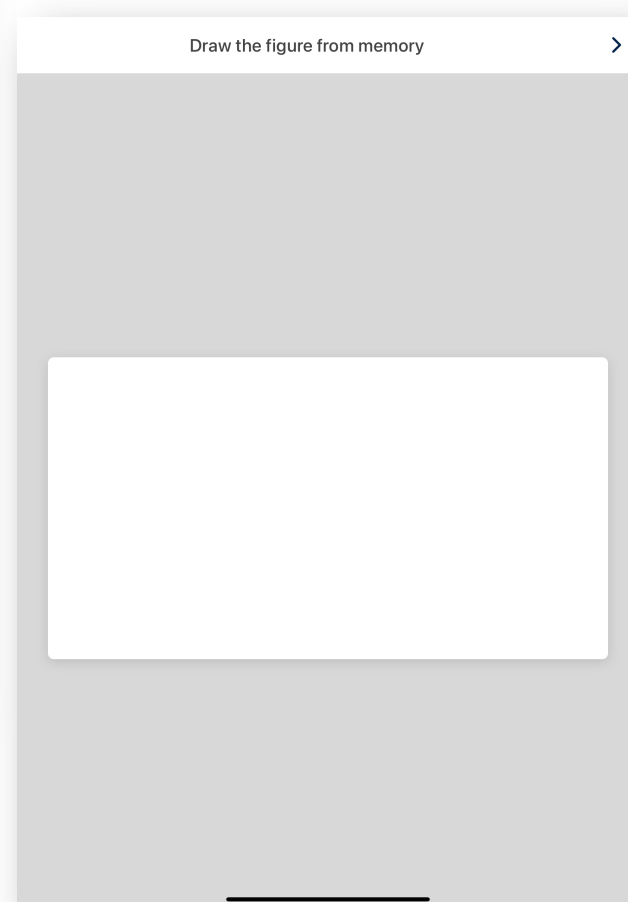
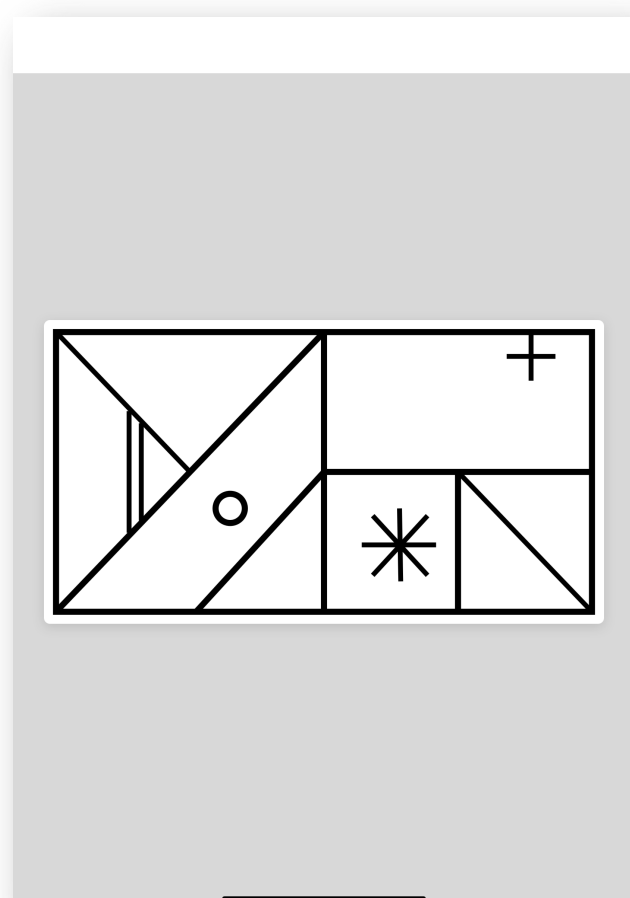
**Read out** the instruction at the top when the canvas replaces the figure in the middle of the screen



Use of **stylus** is recommended

*Respondent draws the figure **unaided***

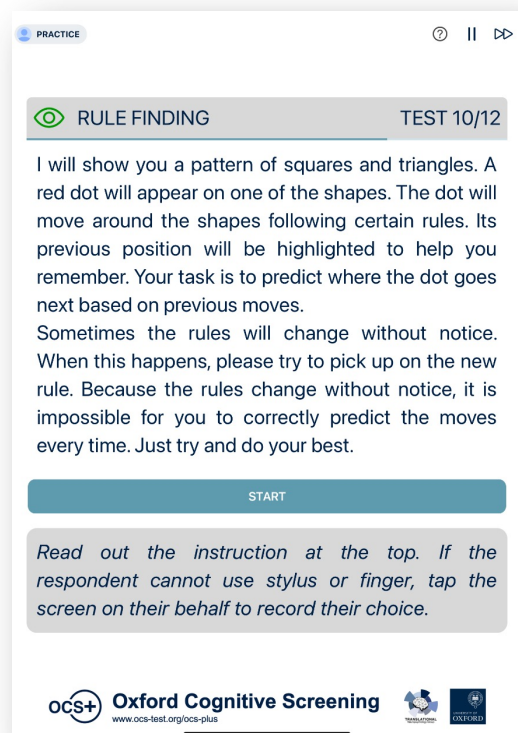
**Do not correct** them if they use the border of the canvas area as a border for their drawing



Tap to complete the task when respondent indicates the drawing is finished



*Respondent uses their finger or a stylus to draw on this canvas the figure from memory*



## RULE FINDING

- automatically scored -



*Show the task screen to the respondent*

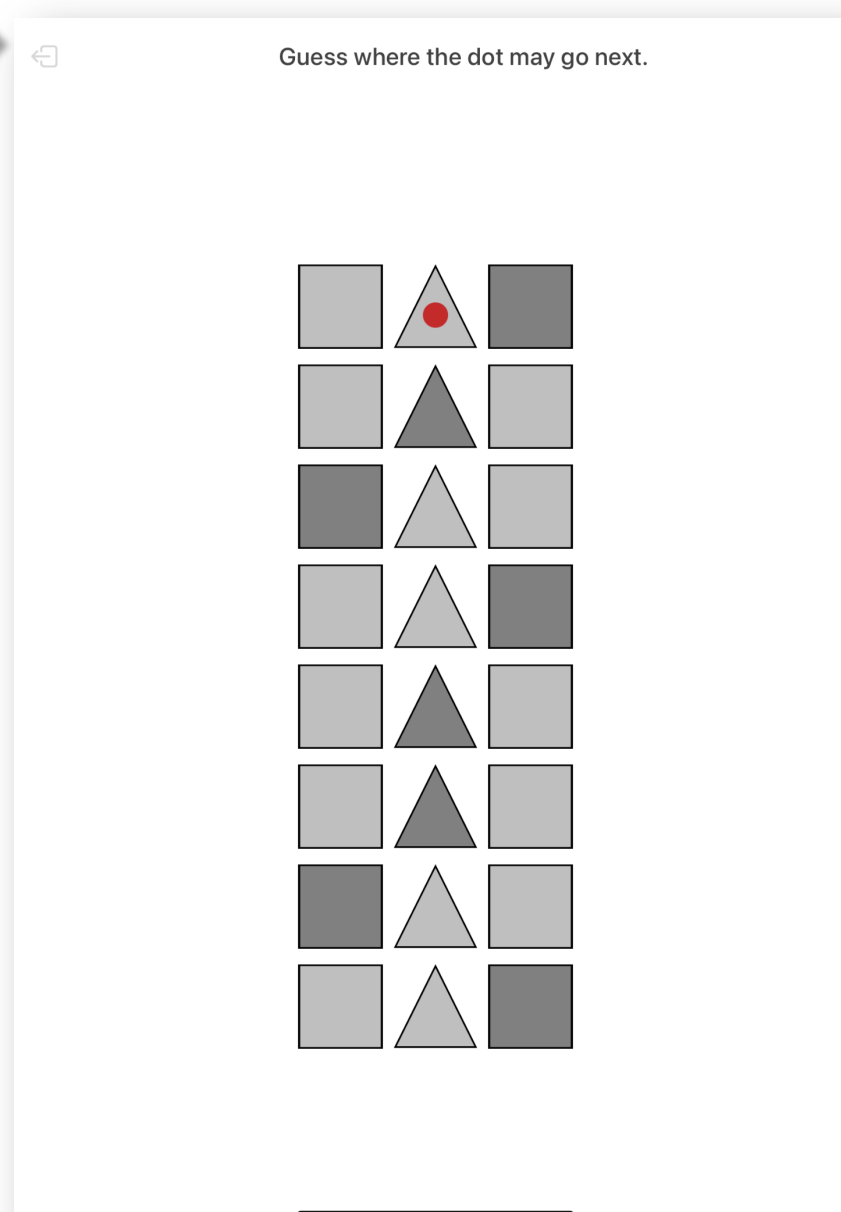
*Read out the prompts at the top*

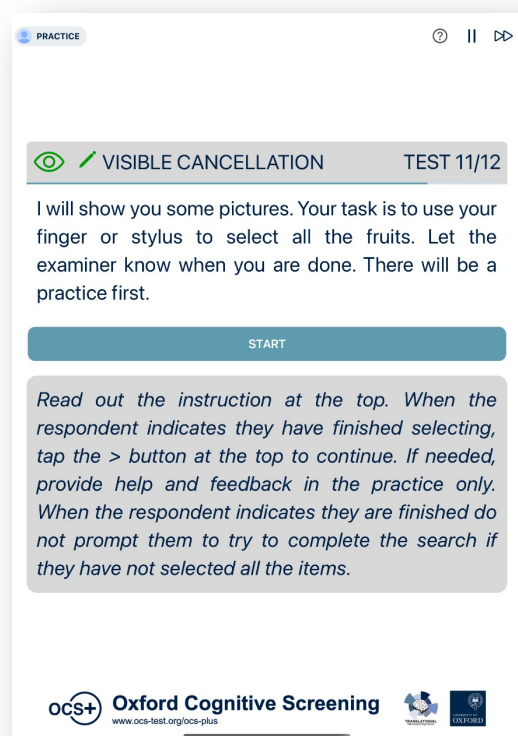
*Prompt respondent to **tap** to select their answer*

*Point to each new position of the red dot for first **three** trials when the prompt is displayed at the top*

*Respondent makes their selection **unaided** when there is no text prompt displayed at the top.*


Tap this to   **abort** the task




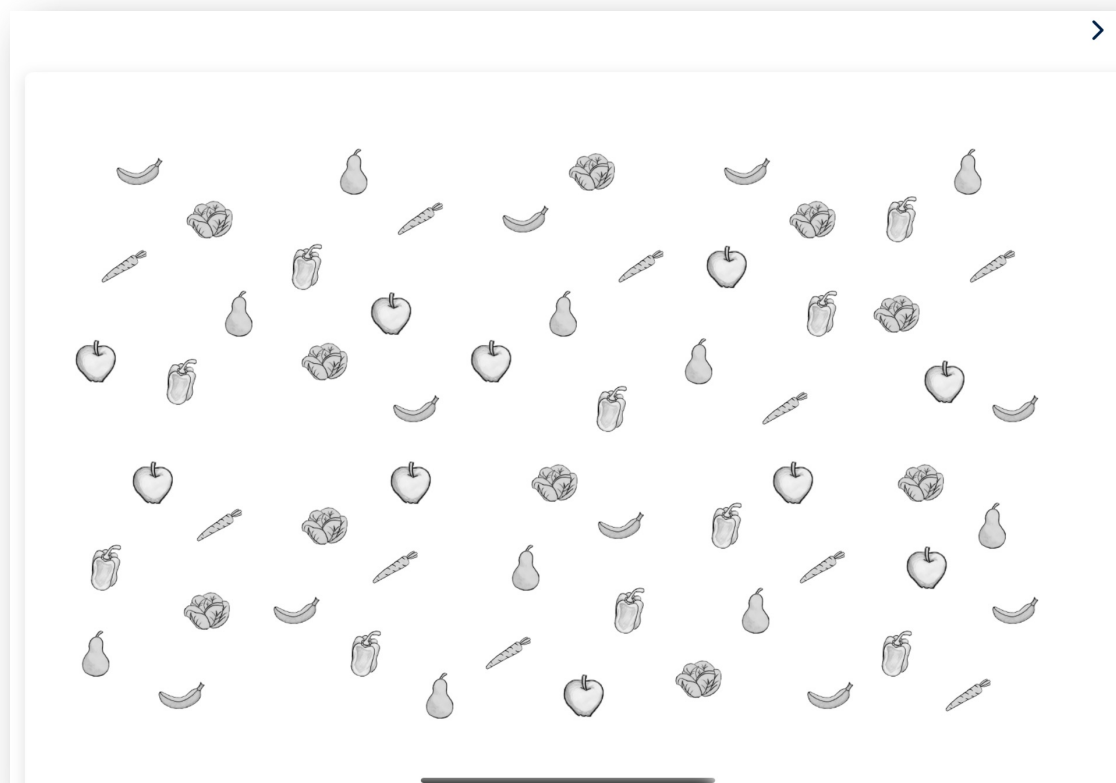


# VISIBLE CANCELLATION

- automatically scored -

 **Show** the task screen to the respondent  
**Prompt** respondent to **tap** to make their choices  
**Wait** for respondent to indicate they finished  
 Test automatically times out after **3 minutes**

 Use of **stylus** is recommended  
 Respondent makes their selection **unaided** and **without feedback** from you  
**Do not prompt** them when they have finished

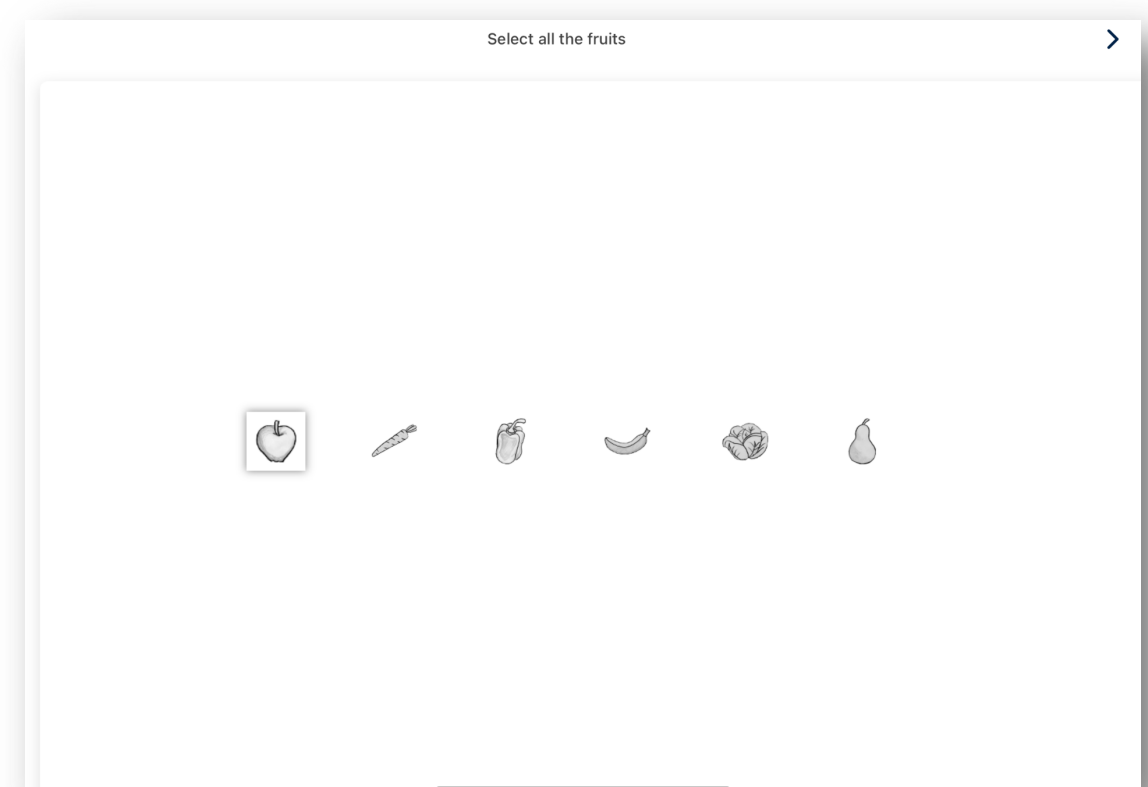


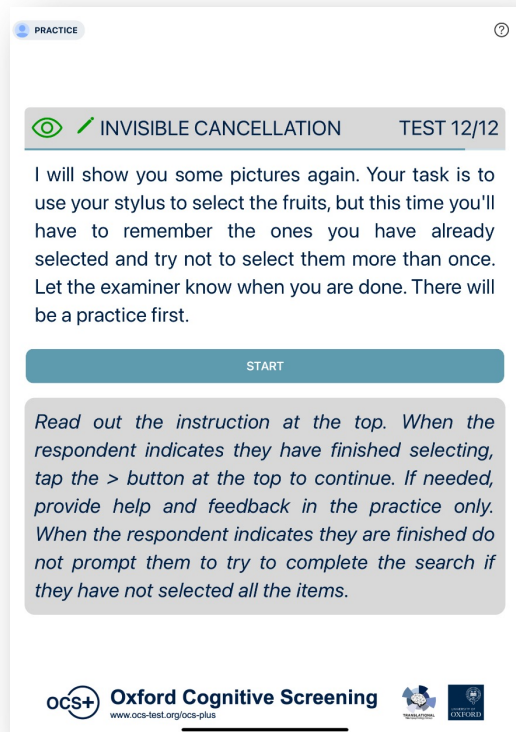
← Tap to complete the task when respondent **indicates** they have finished

Highlight that a selected item has a **shadow** and **cannot be unselected**

Clarify to respondent that fruit is what you put in a fruit salad, for example not pepper.

## Practice





# INVISIBLE CANCELLATION

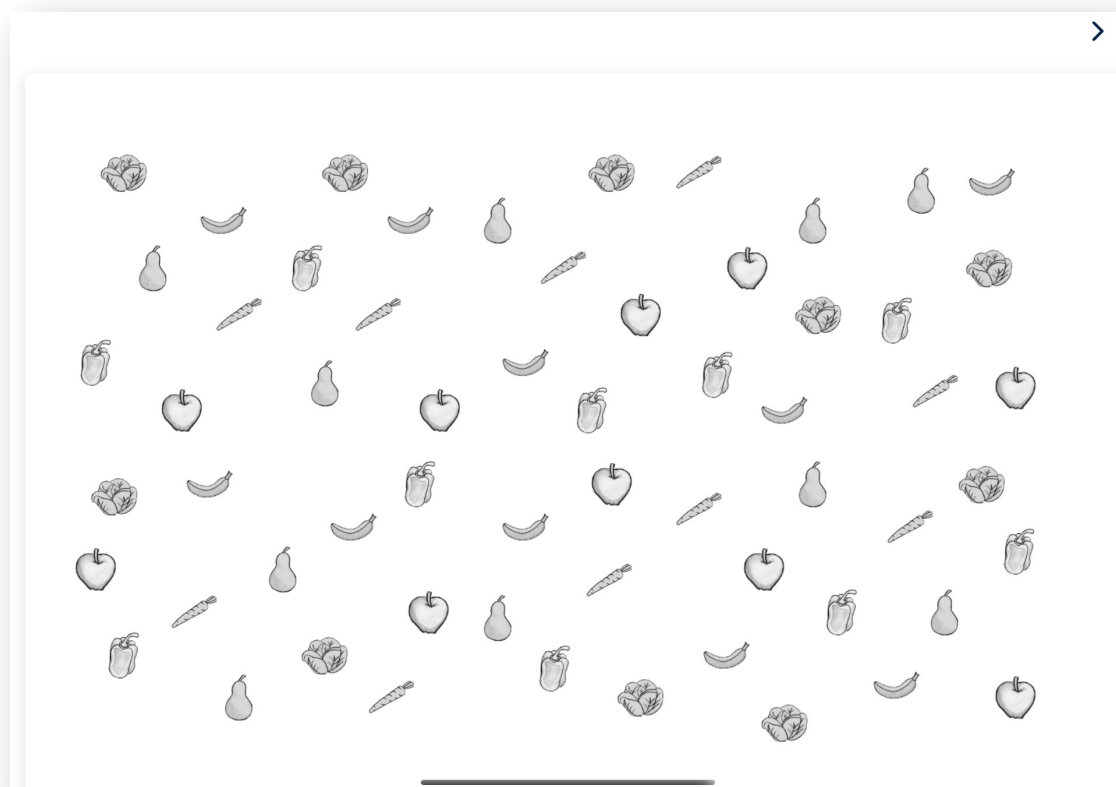
- automatically scored -



**Show** the task screen to the respondent  
**Prompt** respondent to **tap** to make their choices  
**Wait** for respondent to indicate they finished  
**Test** automatically times out after **3 minutes**



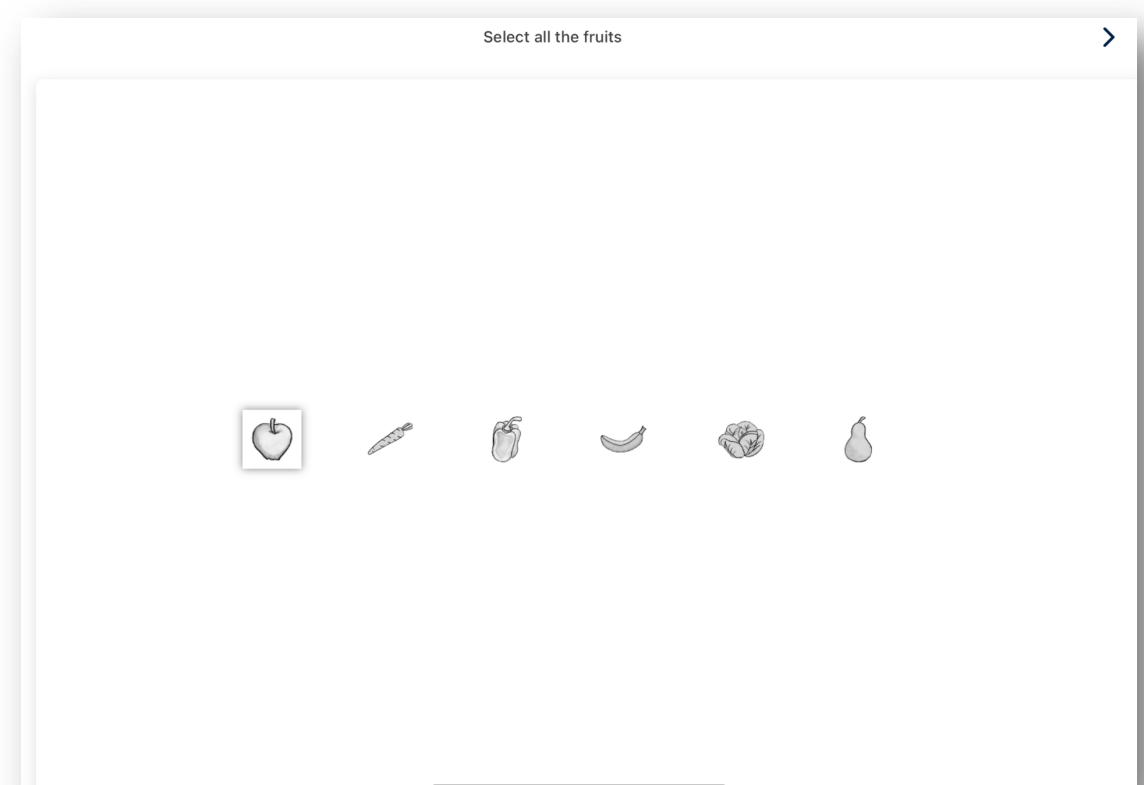
Use of **stylus** is recommended  
Respondent makes their selection **unaided** and **without feedback** from you  
**Do not prompt** them when they have finished



Tap to complete the task  
when respondent **indicates**  
they have finished




## Practice

Highlight that a selected item has a **shadow only temporarily** and **cannot be unselected**

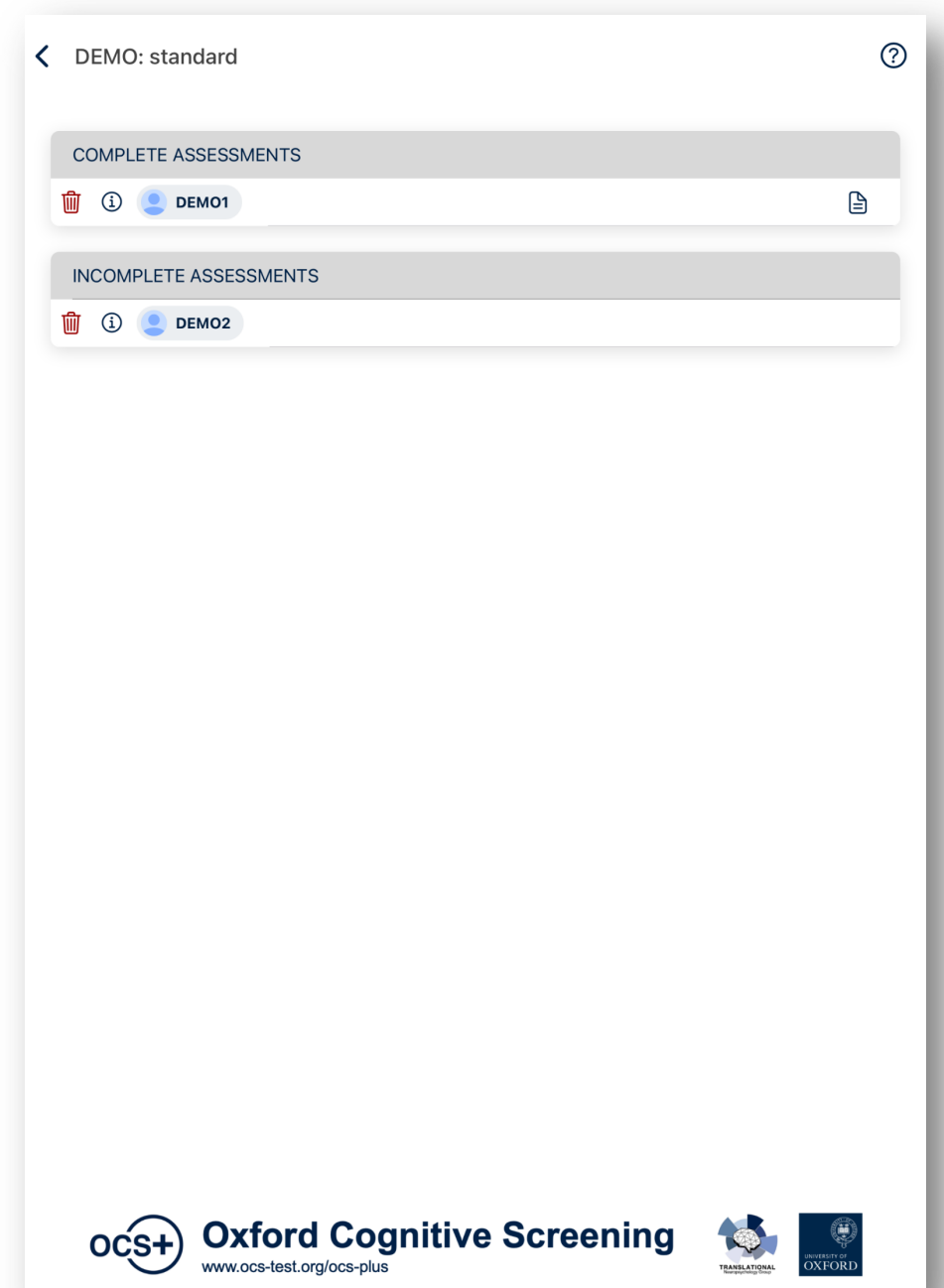
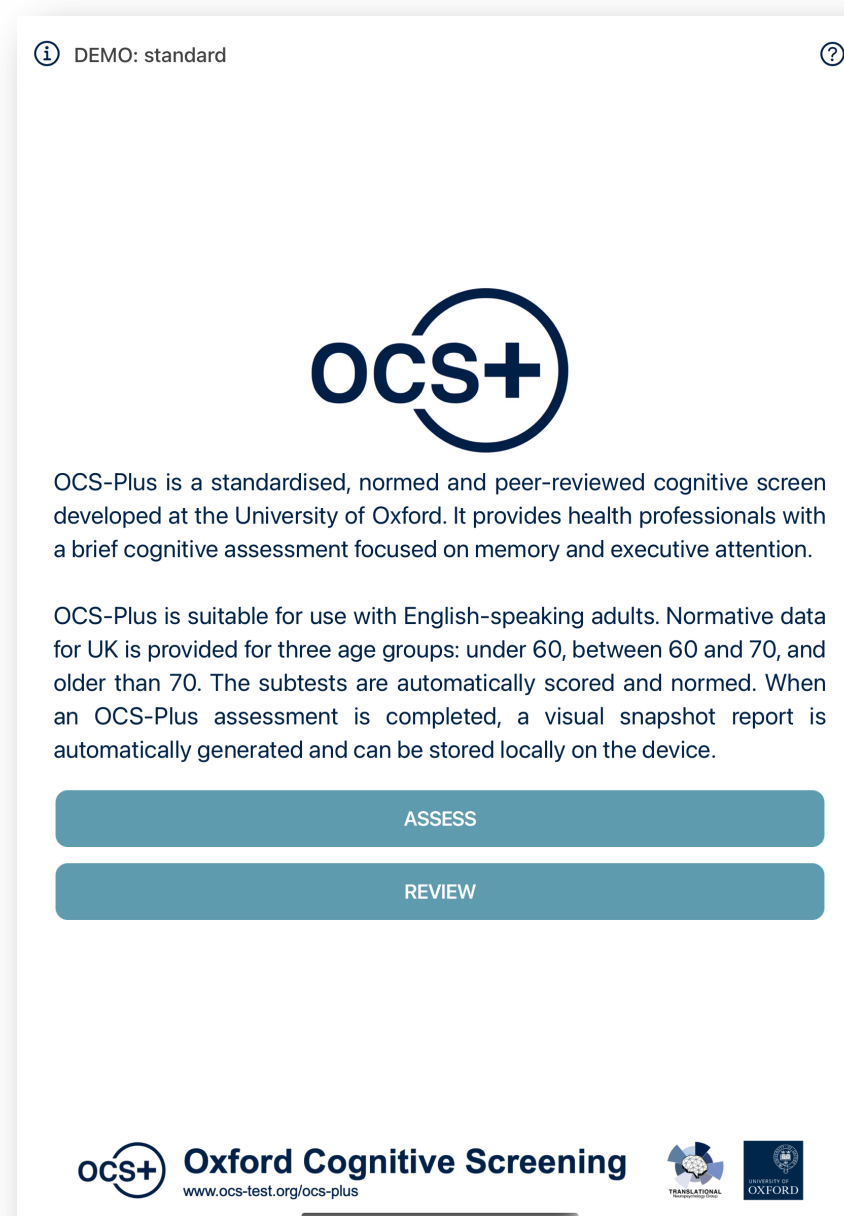




# Reviewing assessments

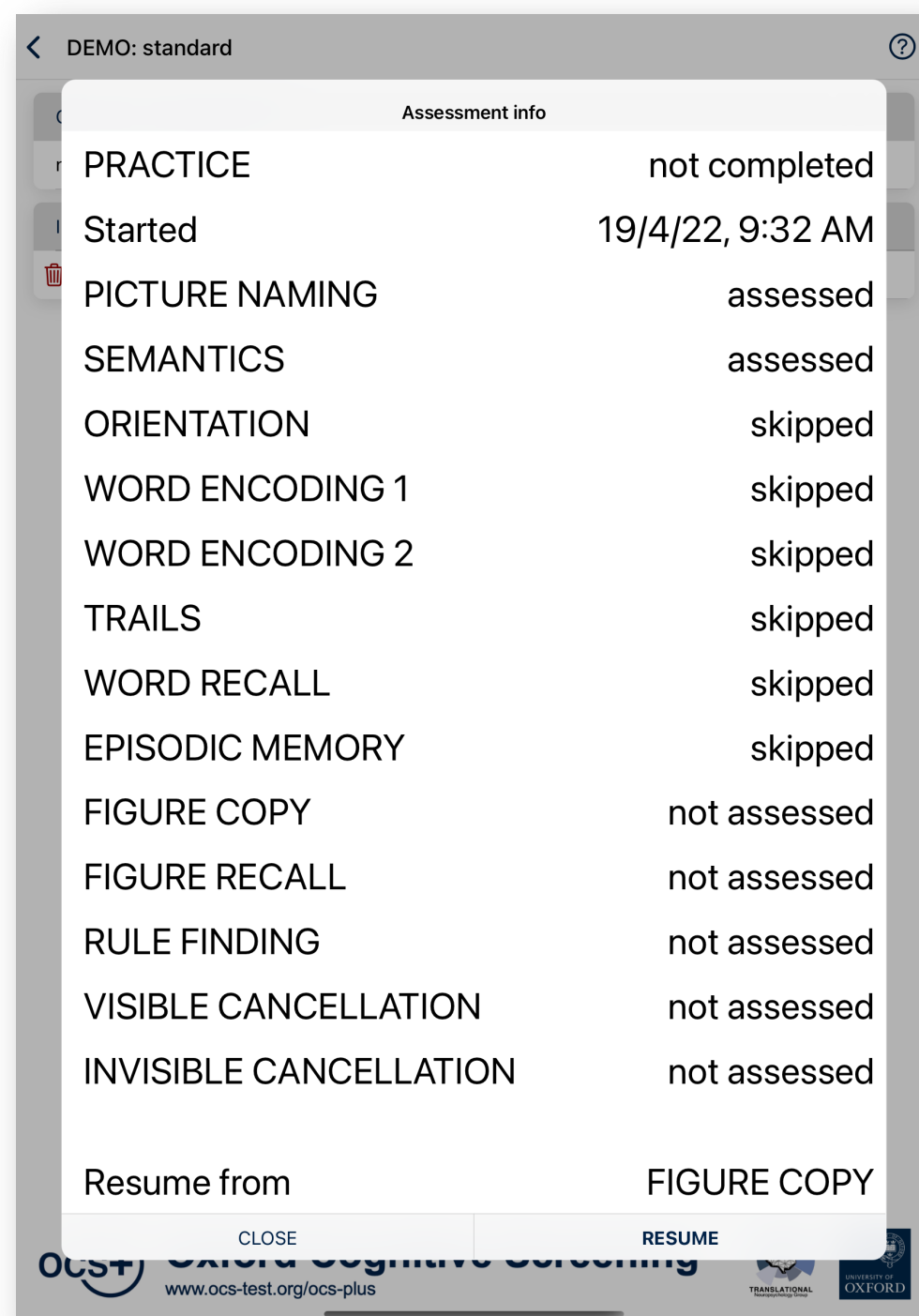
-  **VIEW** cognitive profile for completed assessments
-  **DELETE** assessments – a maximum of 8 assessments can be stored on your device at any time
-  **VIEW** assessment information

Tap to access  
review screen



# Incomplete assessments

You can view details of incomplete assessment and resume them  
An incomplete assessment can only be resumed on the **same device** as it was started on



The screenshot shows a mobile application interface with a modal window titled 'Assessment info'. The window contains a table with two columns: task names and their completion status. The tasks are listed in descending order of completion. At the bottom of the modal, there is a 'Resume from' section with a dropdown menu set to 'FIGURE COPY', and two buttons: 'CLOSE' and 'RESUME'. The background of the app shows a list of tasks with some highlighted in red.

Assessment info	
PRACTICE	not completed
Started	19/4/22, 9:32 AM
PICTURE NAMING	assessed
SEMANTICS	assessed
ORIENTATION	skipped
WORD ENCODING 1	skipped
WORD ENCODING 2	skipped
TRAILS	skipped
WORD RECALL	skipped
EPISODIC MEMORY	skipped
FIGURE COPY	not assessed
FIGURE RECALL	not assessed
RULE FINDING	not assessed
VISIBLE CANCELLATION	not assessed
INVISIBLE CANCELLATION	not assessed
Resume from	FIGURE COPY
CLOSE	RESUME

www.ocs-test.org/ocs-plus

← Some tasks were assessed

← Some tasks were skipped

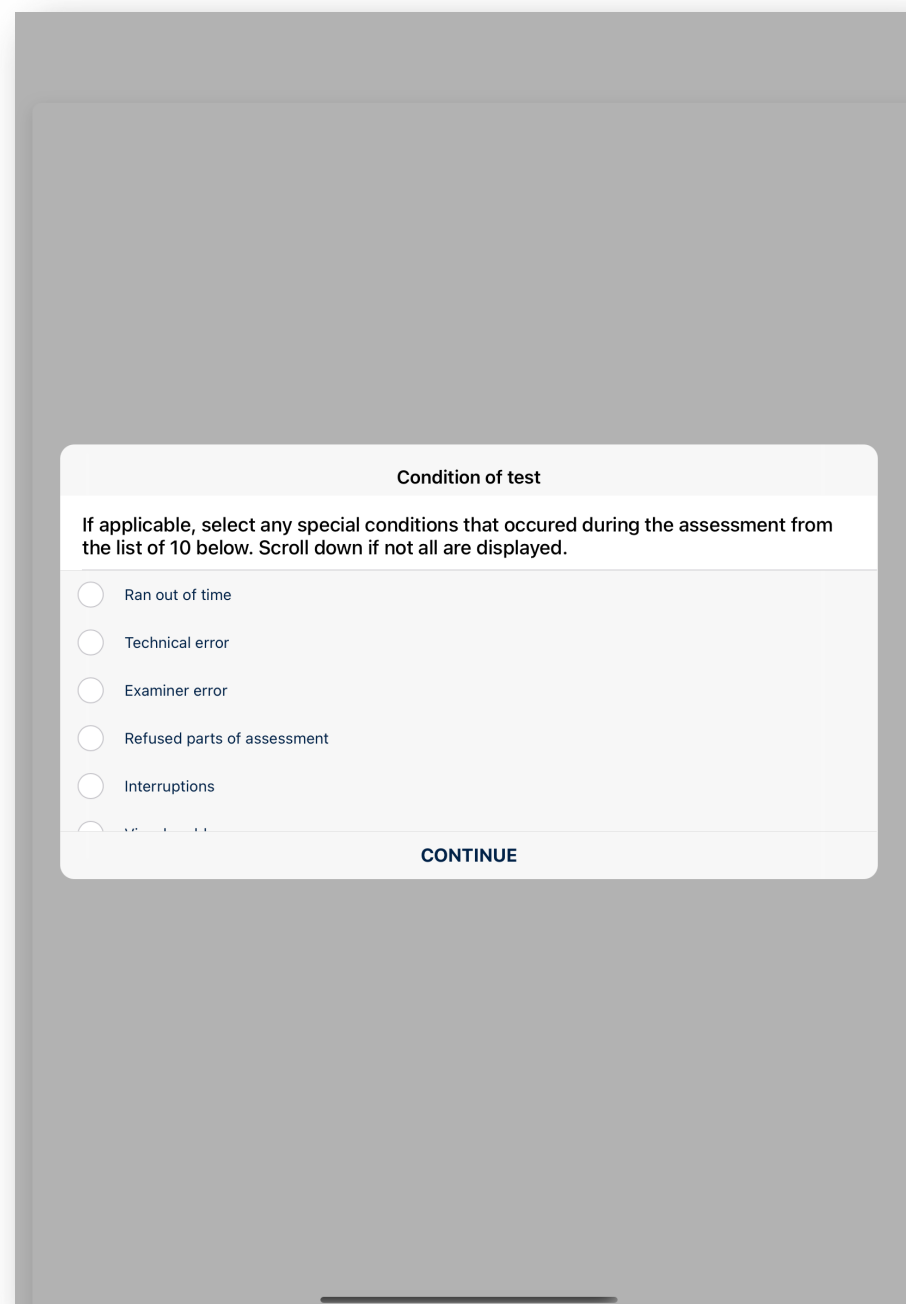
← Tasks still to run

← Tap to resume the assessment

# Condition of test - RESEARCH licence only

At the completion of an assessment, you can mark special conditions of test that could be relevant for your data.

Select the special conditions relevant to the assessment



Condition of test

If applicable, select any special conditions that occurred during the assessment from the list of 10 below. Scroll down if not all are displayed.

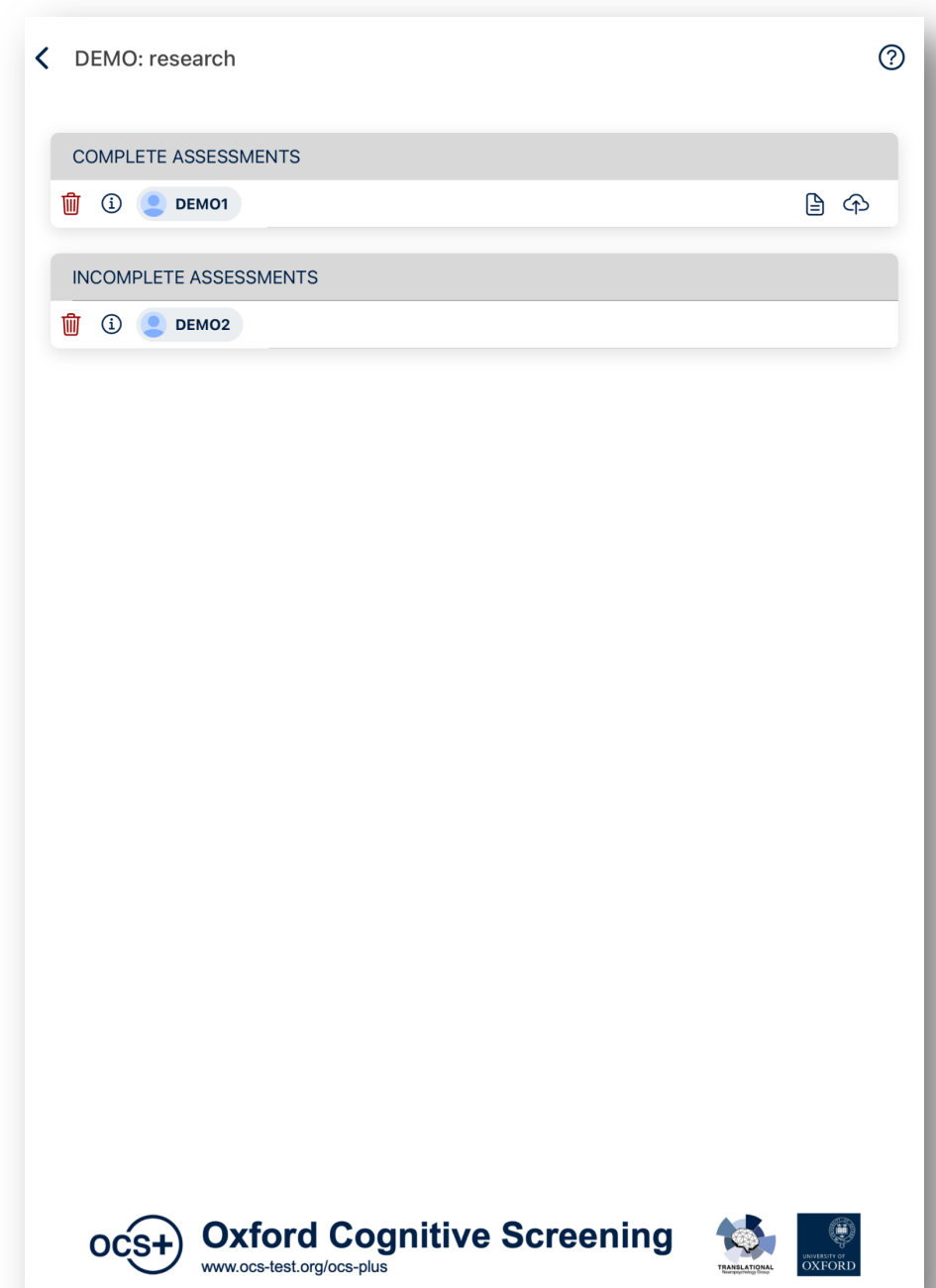
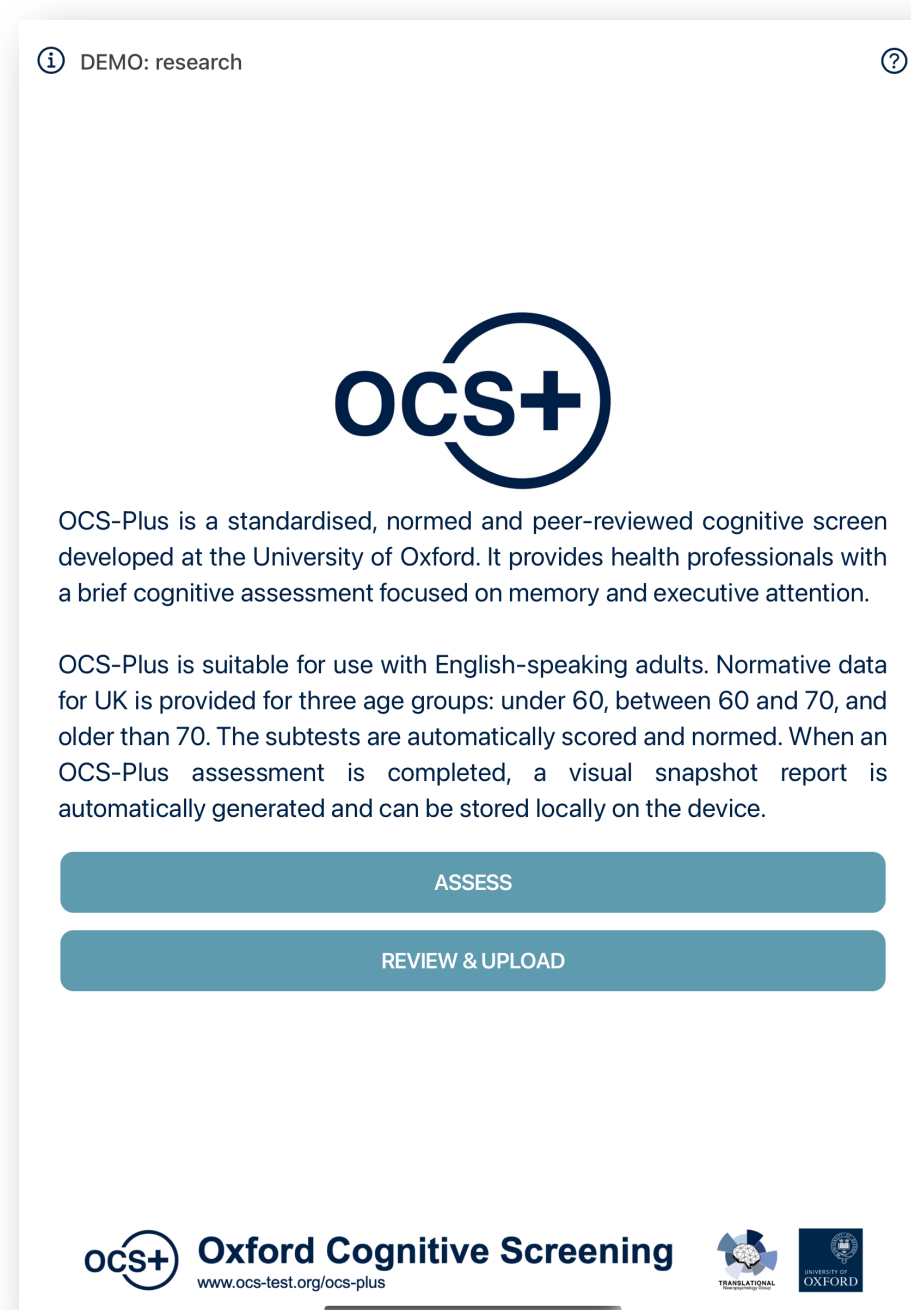
- ☐ Ran out of time
- ☐ Technical error
- ☐ Examiner error
- ☐ Refused parts of assessment
- ☐ Interruptions
- ☐ Assessment not completed

CONTINUE

# Uploading assessments - RESEARCH licence only

 **UPLOAD** raw data for completed assessments

Tap to access  
review screen

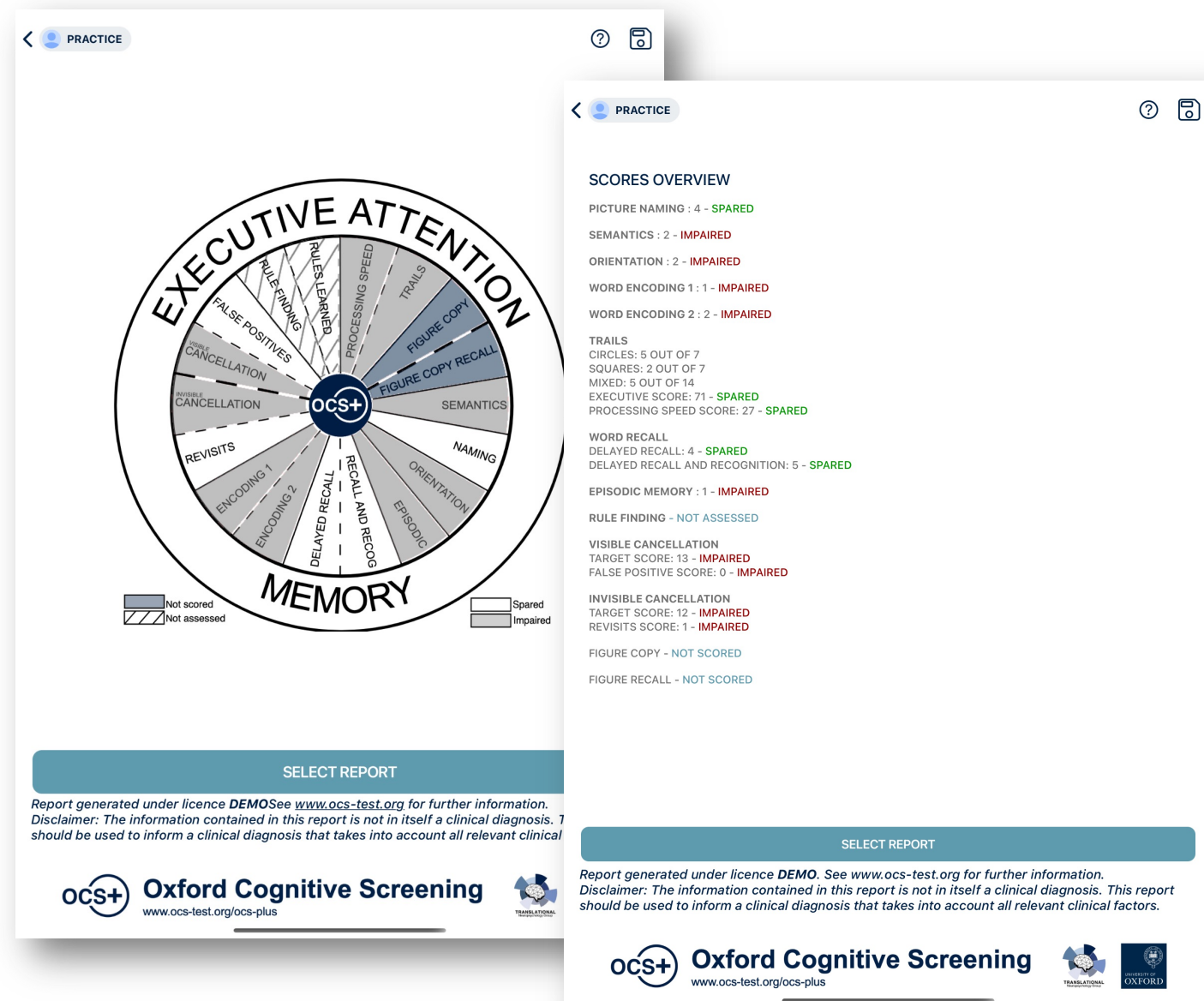




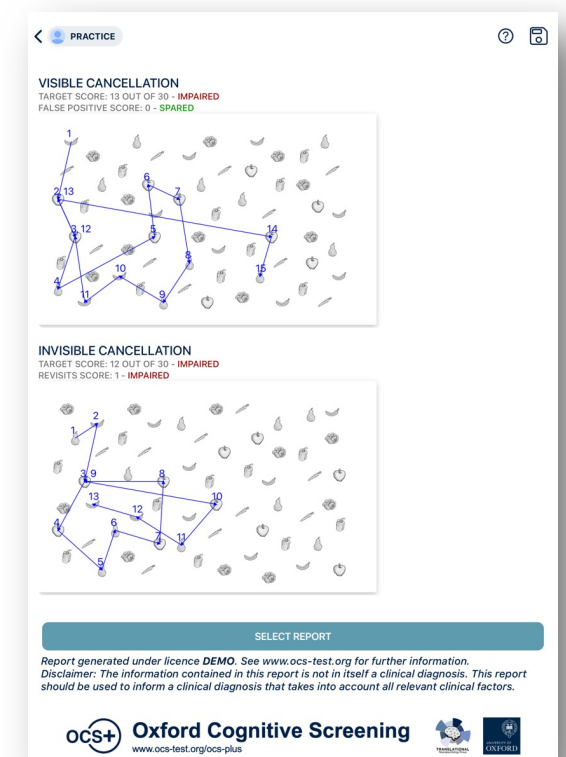
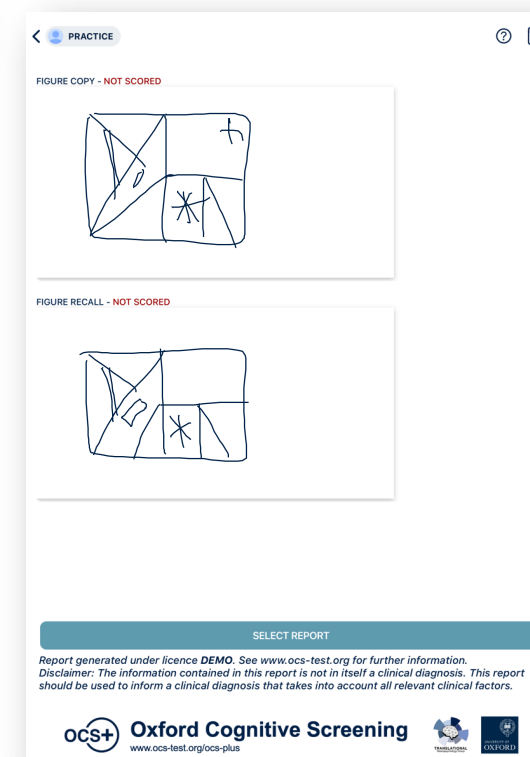
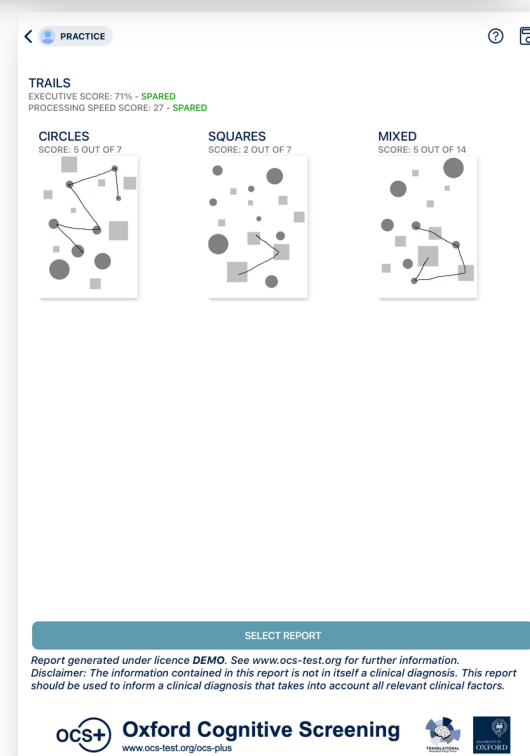
# Cognitive profile

Profile highlighting spared and impaired performance  
Separate reports for drawing and cancellation tasks

You can save a screenshot of each report on your device for your records if required



Tap to select to view representations of individual task performance



Note: FIGURE COPY and FIGURE RECALL are not scored in this version.

## Further information

More information at [www.ocs-test.org/ocs-plus](http://www.ocs-test.org/ocs-plus)

Normative data on UK and German healthy adults – see original validation paper: <https://doi.org/10.1038/s41598-021-87287-8>

## RESEARCH LICENCING

If you need a **RESEARCH** licence to upload **anonymized raw** data from the OCS-Plus app, please email us as [ocsplus@psy.ox.ac.uk](mailto:ocsplus@psy.ox.ac.uk)

A contractual **collaboration agreement** between the University of Oxford and the institution requesting a research licence must be in place before any data can be collected.

You will need to ensure you have sufficient ethical approvals for all data collected with the OCS-Plus app and that the approved ethics includes storage of anonymized data on cloud-based storage.

Anonymized research data will be accessible through dedicated members of the Translational Neuropsychology Research Group which will collate and send research data to each research team – for full details see our privacy policy - <https://www.ocs-test.org/ocs-plus-privacy/>