Understanding the CAT4 assessment and reports





### What is CAT4?

**CAT4**: Cognitive Abilities Test Fourth Edition

CAT4 assesses a student's abilities across four different reasoning areas:

Verbal reasoning – thinking with words

Quantitative reasoning – thinking with numbers

Non-Verbal reasoning – thinking with shape

Spatial reasoning – thinking with space and shape

It is important to note that this is an assessment of ability and not attainment



## Ability vs. Attainment

#### **Cognitive Abilities Test**

- Requires no preparation
- Assesses regardless of previous teaching and schooling
- Gives an indication of the ability of a student to learn
- Used at the beginning of the academic year to ensure appropriate support and intervention is in place

### **Attainment Testing**

- Often requires revision and practice
- Assesses skills and content knowledge that have been taught
- Gives an indication of what has been learnt
- Used at the end of teaching modules to track progress and identify whether any gaps in knowledge or skills are present



### What is CAT4 used for?

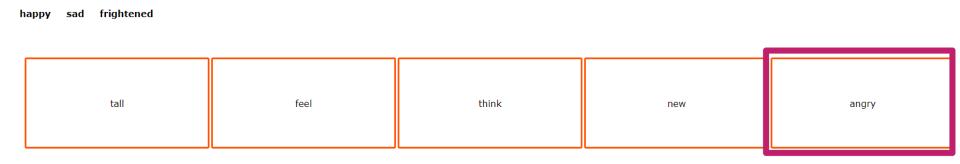
- Identifying academic potential
- Understanding how a student thinks
- Determining where further support may be necessary
- Highlighting any possible barriers to learning
- Setting learning targets
- Providing feedback to the teacher, to the student and to the parent





# Verbal Reasoning Your turn...

#### **Verbal Classification**



### Verbal Analogies





# Quantitative Reasoning Your turn...

### **Number Analogies**



[5→4][8→7][3→?]

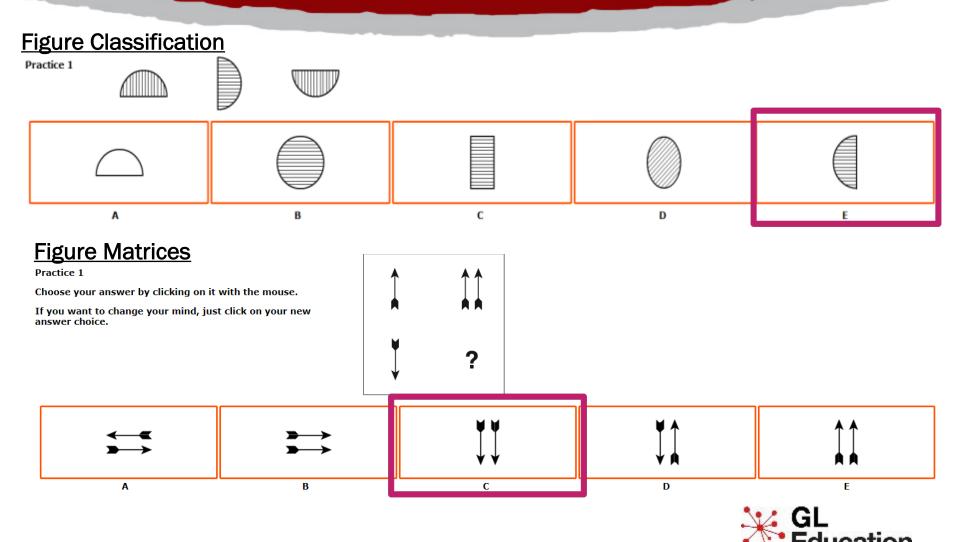
### **Number Series**

#### Practice 1

5 10 15 20 →

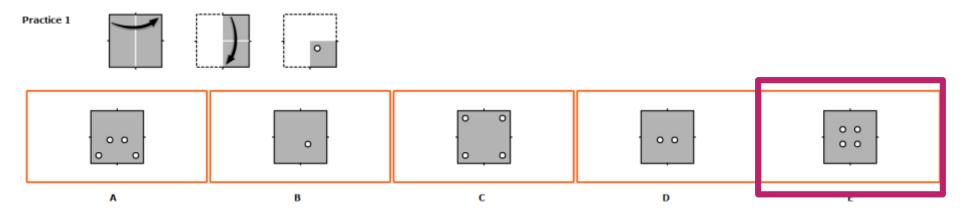


## Non-Verbal Reasoning Your turn...

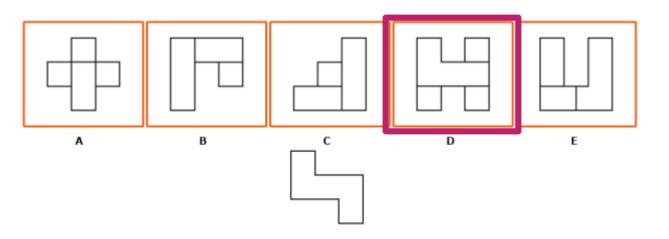


# Spatial Reasoning Your turn...

### Figure Analysis



### Figure Recognition





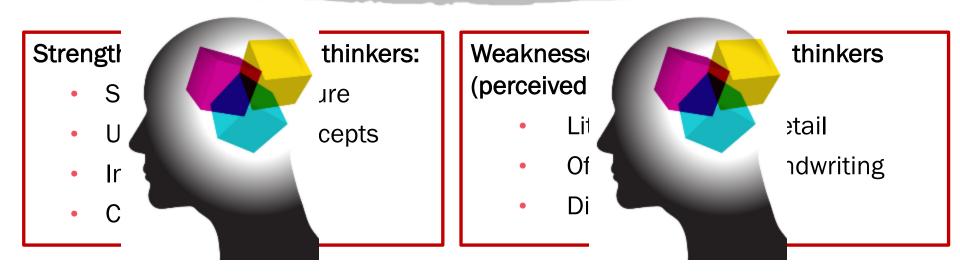
## What is Spatial Reasoning?

The ability to generate, retain and manipulate abstract spatial images", Lohman (1979)





## What is Spatial Reasoning?



Students with good spatial reasoning ability have a high potential in subjects such as Science, Technology, Engineering, Mathematics and the Creative Arts.

These subjects are important for the future career prospects of our students.



### Verbal Reasoning

- Verbal reasoning is the ability to think with words.
- The verbal reasoning battery is the only battery that is influenced by students' English language skills.
- Students who do not have English as a first language may find their verbal score to be lower than the other batteries.
- As verbal reasoning can be influenced by schooling, students can improve their verbal score by improving their English language skills.
- There will be strategies suggested in your Parent Report that will guide how you can support your child with their verbal reasoning skills at home.



## **Understanding the Reports**

The yellow band highlights where the "average" scores lie.



This student has scored above average in every battery.

This tells us that this student is highly able across all four reasoning skills.



## **Understanding the Reports**

The summary provides commentary on the results from the CAT4 assessment and gives some guidance about strategies you can use at home to support your child.

### Summary

Jessica's profile of scores from *CAT4* shows she has a clear preference for learning by reading, writing and talking about topics but od spatial skills will mean that she can learn effectively in a number of different ways.

- Jessica may find that she gets ahead very quickly in some subjects and so needs extra work that allows
  her to do more research or read around a subject or follow her own interests. As some students may be
  reluctant to ask for this, do encourage Jessica to approach the teachers.
- Jessica will learn best when working step-by-step through a subject or task.
- Encourage Jessica to read widely outside school. Reading from a range of different types of books will add to her knowledge and skills.
- Think about activities outside school that build on her abilities, for example debating, drama or science club. She may enjoy these if she is not already taking part.

