designclass
design | engineering | technology

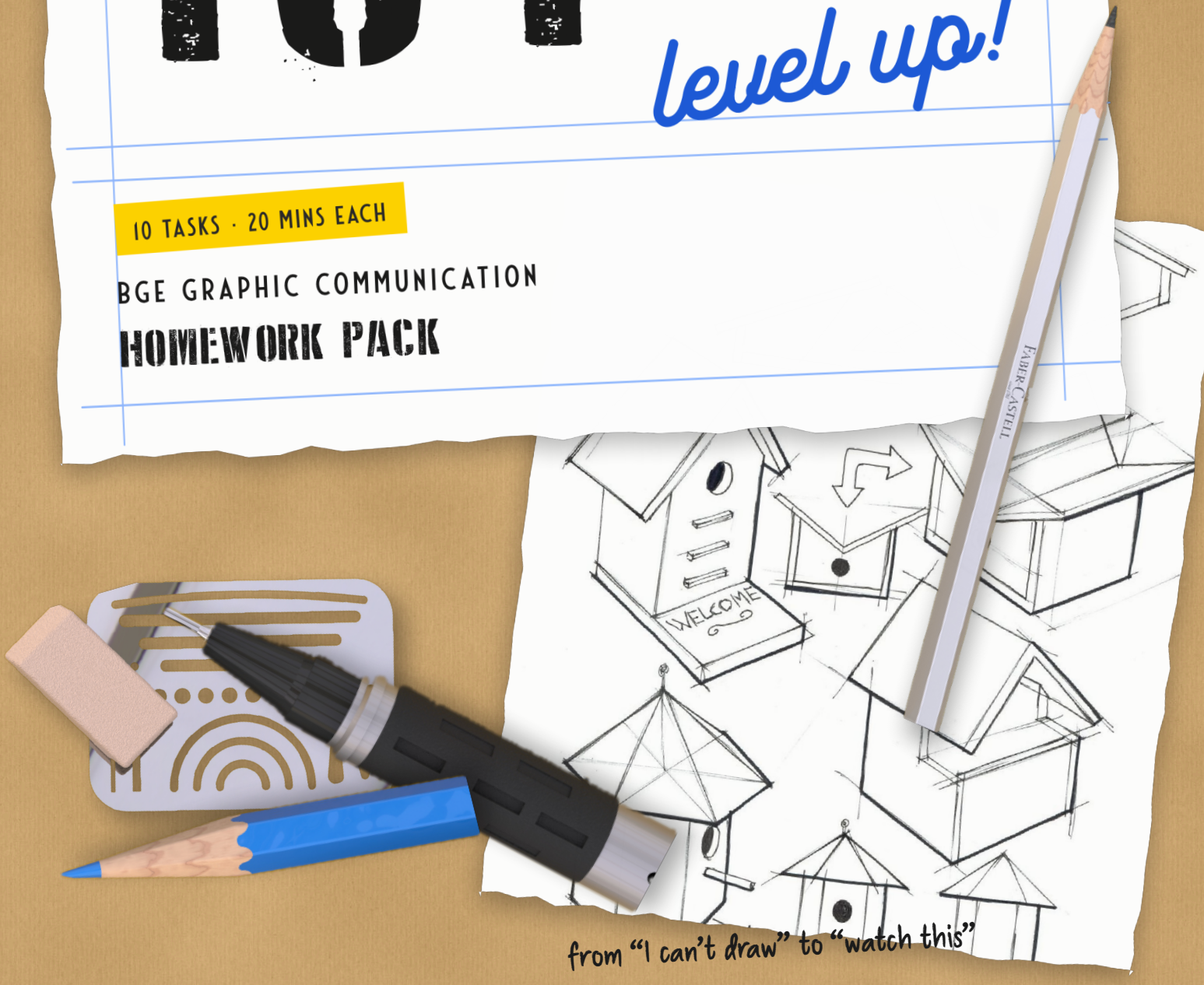
SKETCHING 101

level up!

10 TASKS · 20 MINS EACH

BGE GRAPHIC COMMUNICATION

HOMEWORK PACK



from "I can't draw" to "watch this"

HOMEWORK PACK

HOW TO USE THIS PACK

NAME _____

CLASS _____

Ten short homework tasks — one for each level.

- Each task takes about **20 minutes**.
- Start with the **recall questions**. Answer them from memory first — this is the best way to make learning stick. Then check your answers in the booklet and correct them in a different colour.
- Then do the **sketching task**. Sketch what you can really see, start with crates and keep construction lines light.
- Rate your confidence at the end of each task. Be honest!

Type-in version: type answers in the blue boxes and tick the confidence boxes. Do the sketching on paper or a tablet and show your teacher.

Little and often

Five minutes of sketching every day beats one hour once a week. Keep a scrap pad by your bed or in your bag.

HOMEWORK 01 · LEVEL 01

PAREIDOLIA HUNT

NAME _____

CLASS _____

RECALL — NO NOTES!

1 What is the job of an **Explore** sketch?

2 Which pencil is best for faint construction lines: 2H, HB or 2B?

3 What does **pareidolia** mean?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 01** – booklet pages 4–6.



THE TASK

Look around your home and outside for things that seem to have a **face** or look like an animal – a plug socket, the front of a car, a cloud, a tap… Sketch **three** of them as simply as you can. Then add one or two details (eyes, a mouth) to make the face really obvious.

FIND #1

FIND #2

FIND #3

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 02 · LEVEL 02

FIVE-DAY DRILL DIARY

NAME _____

CLASS _____

RECALL — NO NOTES!

1 Name the three Es — why designers sketch.

2 About how far from the tip should you hold your pencil for sketching?

3 Why should you not use a ruler when sketching?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 02** — booklet pages 7–8.



THE TASK

Spend **5 minutes a day for 5 days** doing one of the four drills from Level 02 (parallel lines, accuracy, grids, boxes). Fill in the diary, then sketch your **best** lines from the week in the box.

DAY	DRILL I PRACTISED	HOW DID IT GO? 1 · 2 · 3
Day 1		☐ ☐ ☐
Day 2		☐ ☐ ☐
Day 3		☐ ☐ ☐
Day 4		☐ ☐ ☐
Day 5		☐ ☐ ☐

MY BEST LINES THIS WEEK

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 03 · LEVEL 03

CRATE THREE OBJECTS

NAME _____

CLASS _____

RECALL — NO NOTES!

1 What does **parallel** mean?

2 What is a **crate**?

3 Which line in a finished sketch should be the darkest?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 03** – booklet pages 9–10.



✎ THE TASK

Choose three objects at home (for example a bottle, a lamp, a toaster or a jug). Sketch each one flat-on, as an **elevation**. Crate it first, check the proportions with pencil measuring, then firm it in. Label the **widest part** of each object.

OBJECT 1:

OBJECT 2:

OBJECT 3:

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 04 · LEVEL 04

BOXES AT HOME

NAME _____

CLASS _____

RECALL — NO NOTES!

1. Name the three main orthographic views.

2. In third-angle projection, which view goes above the elevation?

3. In the hexagon trick, how many corners do you join to the centre?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 04** – booklet pages 11–12.



THE TASK

Find three objects that are basically **cuboids** – a cereal box, a stack of books, a phone, a tissue box… Sketch each one in 3D. Start with a cuboid crate and keep lines that go the same way **parallel**. Then add one or two details.

CUBOID OBJECT 1	CUBOID OBJECT 2	CUBOID OBJECT 3

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 05 · LEVEL 05

KITCHEN CYLINDERS

NAME _____

CLASS _____

RECALL — NO NOTES!

1 What is the **apex** of a pyramid?

2 What does **truncated** mean?

3 To sketch a circle in a square, roughly how far from the centre to each corner do you make your marks?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 05** – booklet pages 13–14.



THE TASK

Find three objects in the kitchen that are made from **cylinders** or **cones** – a mug, a jar, a tin, a funnel, a glass. Sketch each one in 3D, starting with a crate and ellipses.

CYLINDER / CONE OBJECT 1

OBJECT 2

OBJECT 3

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 06 · LEVEL 06

ONE-POINT AT HOME

NAME _____

CLASS _____

RECALL — NO NOTES!

1 What is an **ellipse**?

2 What does **tangent** mean?

3 In one-point perspective, which face is sketched true shape?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 06** – booklet pages 15–16.



THE TASK

Choose ONE: **(a)** your name or initials as 3D block letters in one-point perspective, or **(b)** a corner of your bedroom, hallway or a corridor looking straight ahead. Start with a horizon line and one vanishing point.

MY ONE-POINT SKETCH

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 07 · LEVEL 07

TWO-POINT CHALLENGE

NAME _____

CLASS _____

RECALL — NO NOTES!

1 The horizon line is always at your…

2 How many vanishing points does two-point perspective use?

3 Thick lines go on which edges of a sketch?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 07** – booklet pages 17–18.



THE TASK

Sketch a shoe box, a games console, a speaker or the corner of a building in **two-point perspective**. Put your vanishing points far apart. Use thick lines for the outline and thin lines for inside edges.

MY TWO-POINT SKETCH

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 08 · LEVEL 08

SHADE FROM LIFE

NAME _____

CLASS _____

RECALL — NO NOTES!

1 What is **tone**?

2 Describe the "two coats" method for smooth shading.

3 An object is above the horizon. Do you see its top or its underneath?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 08** – booklet pages 19–20.



✎ THE TASK

Put a simple object (a box, a mug, an apple, a ball) next to a window or a lamp. Sketch it and shade it, showing what you **actually see**. Label the **lightest** area, the **darkest** area and the **cast shadow**.

MY SHADED OBJECT

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 09 · LEVEL 09

MATERIAL DETECTIVE

NAME _____

CLASS _____

RECALL — NO NOTES!

1 A **tint** is a hue with what added?

2 Do warm colours **advance** or **recede**?

3 When rendering wood, what do the curved lines at the end of a block show?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 09** – booklet pages 21–22.



THE TASK

Find three products at home made from **wood**, **plastic** and **metal**. Fill in the table, then render a small swatch of each material.

MATERIAL	PRODUCT I FOUND	MY RENDERED SWATCH
Wood		
Plastic		
Metal		

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it

HOMEWORK 10 · LEVEL 10

PLAN YOUR THEMATIC SKETCH

NAME _____

CLASS _____

RECALL — NO NOTES!

1 Name three presentation techniques.

2 What should a strong annotation explain?

3 What is a **thematic presentation**?

How long?

About **20 minutes**. Do the recall questions first **without** looking at your notes, then check them in your booklet. Links to **Level 10** – booklet pages 23–25.



THE TASK

Choose the product for your Thematic Sketch Challenge. Make sure you can hold and examine it. Take or find a few photos, then make **quick thumbnail sketches** of the views you will use. Use your Knowledge Organiser to revise for the knowledge test.

THUMBNAIL 1

THUMBNAIL 2

THUMBNAIL 3

THUMBNAIL 4

How confident do I feel now? ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 1 = not yet · 5 = nailed it