

The background features a light blue sky with several falling leaves in shades of orange and yellow. On the left, a red brick barn with a yellow bell in its cupola sits on a green hill. A yellow school bus is driving on a winding road that curves across the landscape. The foreground is filled with stylized trees in various autumn colors (orange, yellow, brown) and several large pumpkins in shades of orange and yellow.

Technical English
Unit 2
professional English
Design Development

Prof. Hala J. El-Khozondar
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يوافق

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design brief

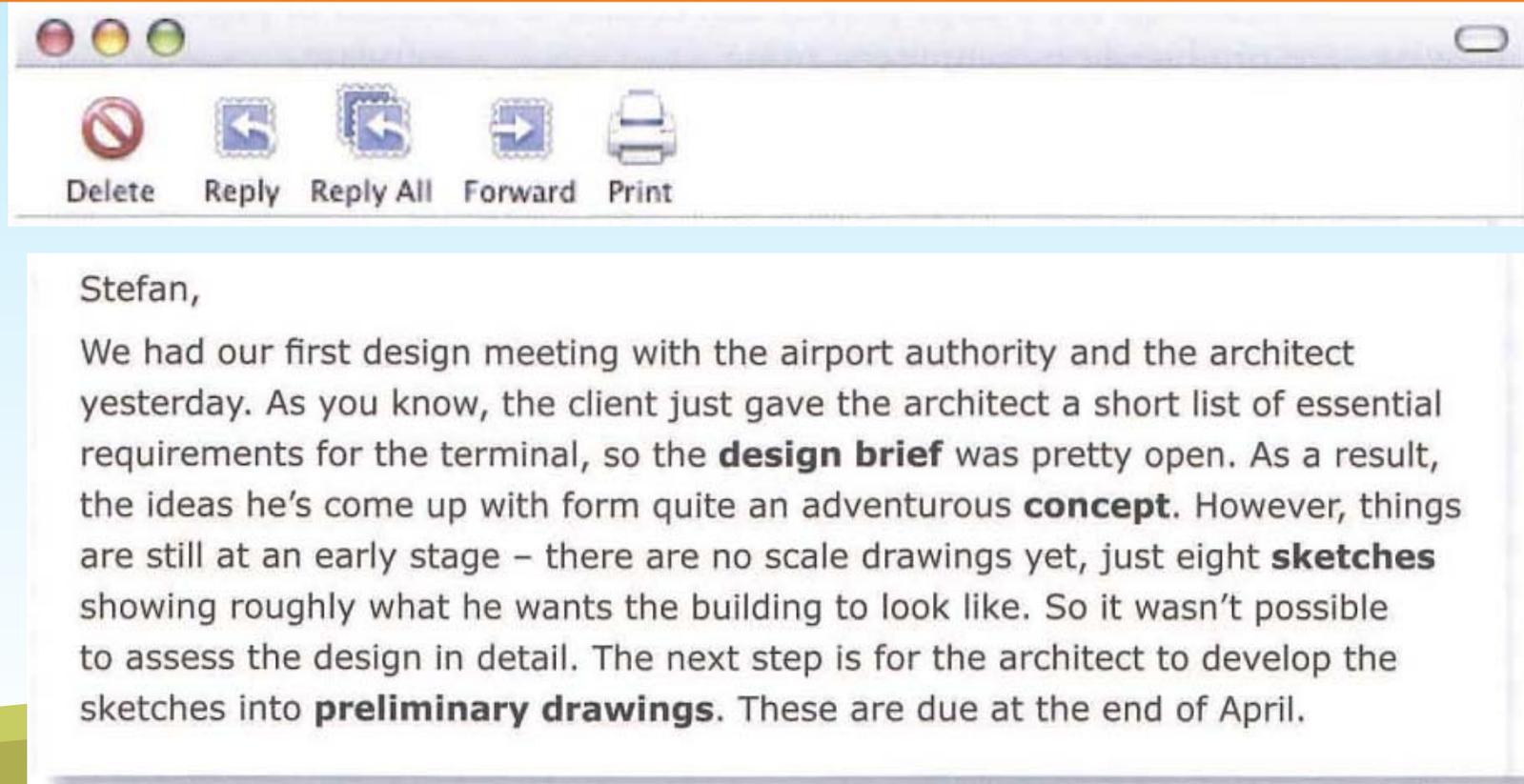
تصميم وجيزة

Sketches

صمم , رسم تخطيطي

A. Initial design phase

A structural engineer from a firm of consulting engineers has sent an email to a more senior colleague, with an update on a project for a new airport terminal.



B. Collaborative development

When a design team consists of engineers and consultants from different organizations, the design development process needs to be carefully co-ordinated.

Before the first **draft** (version) of a drawing is sent to members of the team, a decision is made about who needs a copy. Sometimes, a drawing will only be **issued** to certain specialists in the team. Sometimes, it will be **circulated** to all the team members.

B. Collaborative development

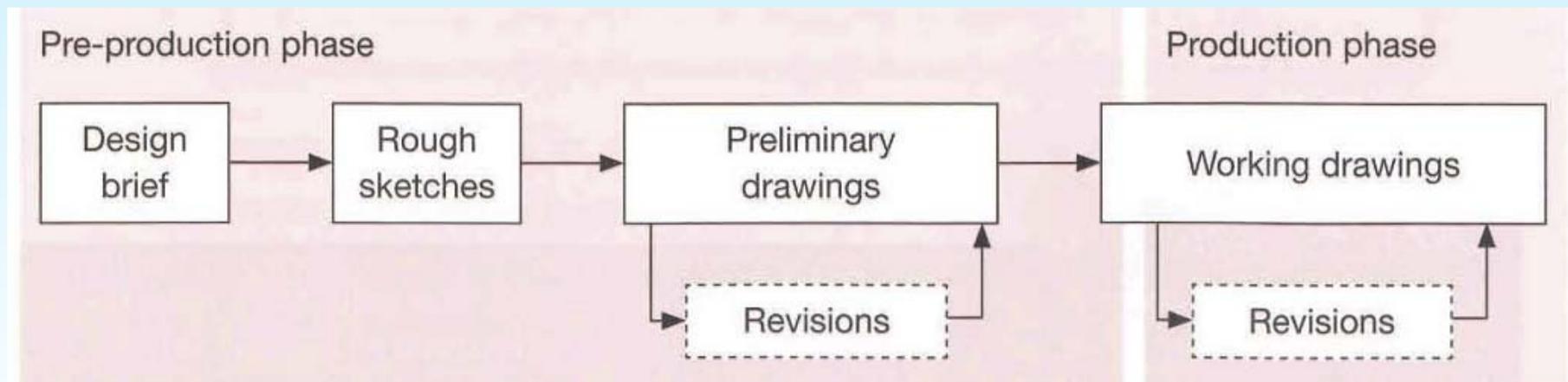
After team members have received a drawing, they can **comment on** it, and may ask for the design to be changed. Following these **comments**, the drawing will be revised- that is, drawn again with the requested changes made to it. Every drawing is numbered, and each time a drawing is amended (revised), the letter next to the drawing number is changed. Therefore drawing 11 OA, after a revision, becomes 11 OB. When **revision B** is issued, it becomes the **current drawing**, and A is superseded. With each new **revision**, written notes are added to the drawing. These describe the **amendments** that have been made.

B. Collaborative development

When engineers revise drawings during the early stages of the design process, they may have to **go back to the drawing board** (start again), and **redesign** concepts completely. For later revisions, the design should only need to be **refined** slightly.

After a preliminary drawing has been finally **approved** (accepted), a senior engineer can **sign off** (authorize) the drawing as **a working drawing**- that is, one that the production or construction team can **work** to. However, this does not always mean the drawing will be final. Often, working drawings go through more revisions to resolve problems during production.

B. Collaborative development





2.1

Find words in A opposite with the following meanings.

- 1 a description of design objectives Design brief
- 2 a rough, hand-drawn illustration sketch
- 3 an initial diagram, requiring further development Preliminary drawing
- 4 an overall design idea concept



1 design brief
2 sketch

3 preliminary drawing
4 concept



2.2

Put the words in the box into the table to make groups of verbs with similar meanings. Look at B opposite to help you.

amend	circulate	redesign	revise	supersede
approve	issue	refine	sign off	

1	2	3	4
change improve	send out distribute	accept agree	replace
1 amend, redesign, refine, revise	2 circulate, issue	3 approve, sign off	4 supersede



2.3

Choose the correct words from the brackets to complete the sentences about drawings. Look at B opposite to help you.

- 1 Has the drawing been revised, or is this the first (draft/refine)?
- 2 This has been superseded. It's not the (current/preliminary) drawing.
- 3 Has this drawing been signed off? Can they (circulate/work) to it in the factory?
- 4 I still need to (comment/note) on the latest set of drawings.
- 5 Construction can't start until the first (current/working) drawings have been issued.

1 draft
2 current

3 work
4 comment

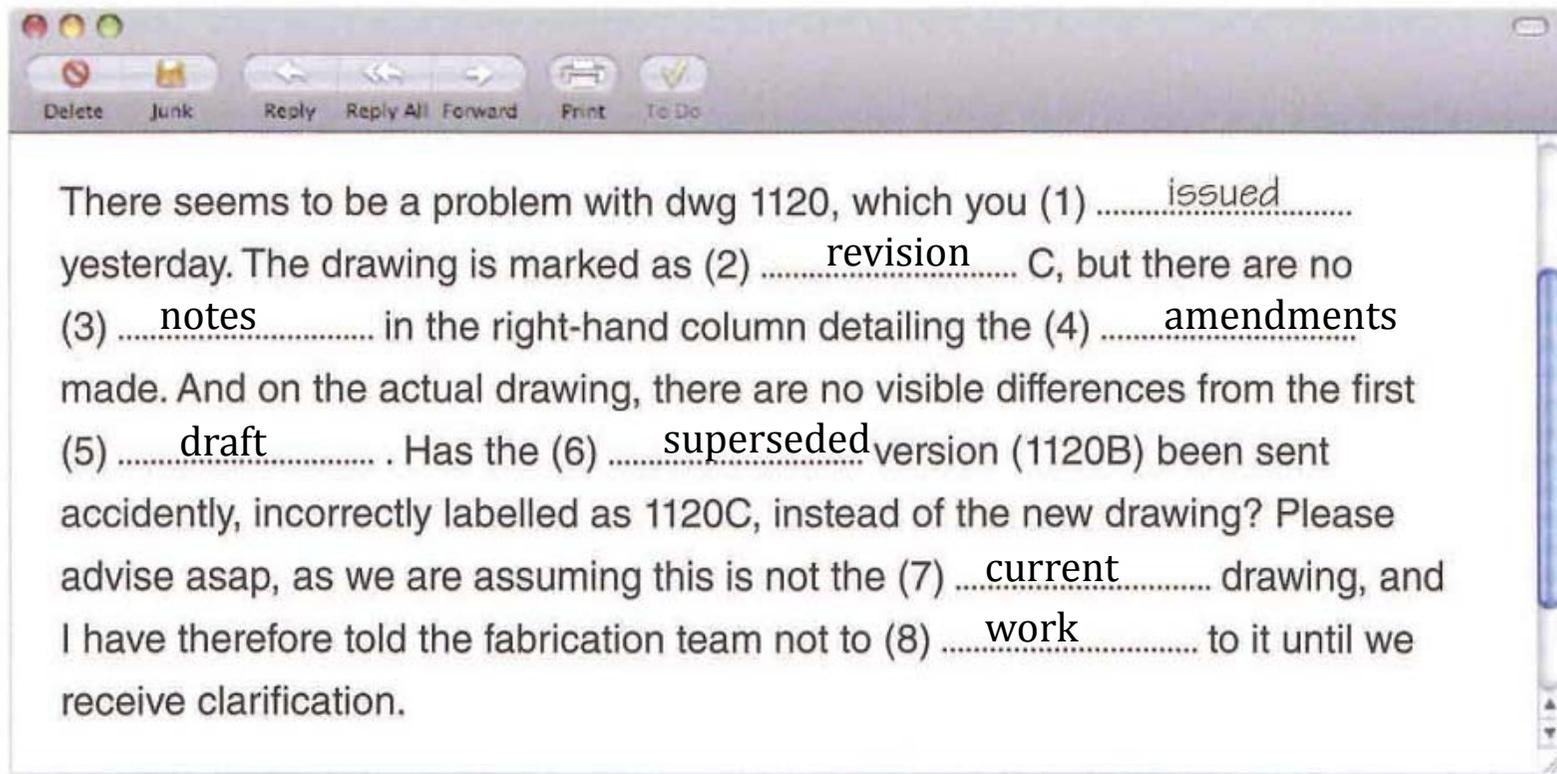
5 working



2.4

Complete the email using the correct forms of the words in the box. Look at B opposite to help you. The first one has been done for you.

amendment current draft issue note revision supersede work



1 issued
2 revision

3 notes
4 amendments

5 draft
6 superseded

7 current
8 work



I see you
got right

Any Questions