



UNIVERSITY of CAMBRIDGE
International Examinations

2007

INTERNATIONAL GCSE

MARKING SCHEME
MAXIMUM MARK: 100
SYLLABUS/COMPONENT: 0418/03 Information Technology SPECIMEN PAPER

If the name, centre number or candidate number is not printed on every page then this page will not be awarded any marks.

Header name, candidate no, centre no 1 mark

Candidate name Centre number Candidate number

PH	Species	Weighting	Psize	Rate
Acid	=COUNTIF(\$D\$7:\$D\$42,A2)	1.27	2	0.12
Alkaline	=COUNTIF(\$D\$7:\$D\$42,A3)	0.928	3	0.4
Neutral	=COUNTIF(\$D\$7:\$D\$42,A4)	1	4	0.795

Rate & Weighting Data entry 100% 1 mark

Code	Species	MaxSize	PH	Size	Bare	Pot	Soil	Cost
Al	=VLOOKUP(A7,Code!\$A\$2:\$B\$15,2,1)	2	Alkaline	2	0.73	=VLOOKUP(E7,PotPrice,2,1)	=IF(D7=\$A\$2,acid*F7,IF(D7=\$A\$3,alkaline*F7,neutral*F7))	=G7+H7
			Alkaline	3	0.95	=VLOOKUP(E8,PotPrice,2,1)	=IF(D8=\$A\$2,acid*F8,IF(D8=\$A\$3,alkaline*F8,neutral*F8))	=G8+H8
			Alkaline	4	1.09	=VLOOKUP(E9,PotPrice,2,1)	=IF(D9=\$A\$2,acid*F9,IF(D9=\$A\$3,alkaline*F9,neutral*F9))	=G9+H9
As	=VLOOKUP(A10,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	3	0.95	=VLOOKUP(E10,PotPrice,2,1)	=IF(D10=\$A\$2,acid*F10,IF(D10=\$A\$3,alkaline*F10,neutral*F10))	=G10+H10
As	=VLOOKUP(A11,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	4	1.09	=VLOOKUP(E11,PotPrice,2,1)	=IF(D11=\$A\$2,acid*F11,IF(D11=\$A\$3,alkaline*F11,neutral*F11))	=G11+H11
Be	=VLOOKUP(A12,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	2	0.77	=VLOOKUP(E12,PotPrice,2,1)	=IF(D12=\$A\$2,acid*F12,IF(D12=\$A\$3,alkaline*F12,neutral*F12))	=G12+H12
Be	=VLOOKUP(A13,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	3	1.2	=VLOOKUP(E13,PotPrice,2,1)	=IF(D13=\$A\$2,acid*F13,IF(D13=\$A\$3,alkaline*F13,neutral*F13))	=G13+H13
Be	=VLOOKUP(A14,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	4	1.57	=VLOOKUP(E14,PotPrice,2,1)	=IF(D14=\$A\$2,acid*F14,IF(D14=\$A\$3,alkaline*F14,neutral*F14))	=G14+H14
SB	=VLOOKUP(A15,Code!\$A\$2:\$B\$15,2,1)	3	Acid	2	0.79	=VLOOKUP(E15,PotPrice,2,1)	=IF(D15=\$A\$2,acid*F15,IF(D15=\$A\$3,alkaline*F15,neutral*F15))	=G15+H15
SB	=VLOOKUP(A16,Code!\$A\$2:\$B\$15,2,1)	3	Acid	3	1	=VLOOKUP(E16,PotPrice,2,1)	=IF(D16=\$A\$2,acid*F16,IF(D16=\$A\$3,alkaline*F16,neutral*F16))	=G16+H16
SB	=VLOOKUP(A17,Code!\$A\$2:\$B\$15,2,1)	3	Acid	4	1.1	=VLOOKUP(E17,PotPrice,2,1)	=IF(D17=\$A\$2,acid*F17,IF(D17=\$A\$3,alkaline*F17,neutral*F17))	=G17+H17
SC	=VLOOKUP(A18,Code!\$A\$2:\$B\$15,2,1)	3	Acid	2	0.8	=VLOOKUP(E18,PotPrice,2,1)	=IF(D18=\$A\$2,acid*F18,IF(D18=\$A\$3,alkaline*F18,neutral*F18))	=G18+H18
SC	=VLOOKUP(A19,Code!\$A\$2:\$B\$15,2,1)	3	Acid	3	1	=VLOOKUP(E19,PotPrice,2,1)	=IF(D19=\$A\$2,acid*F19,IF(D19=\$A\$3,alkaline*F19,neutral*F19))	=G19+H19
SC	=VLOOKUP(A20,Code!\$A\$2:\$B\$15,2,1)	2	Acid	4		=VLOOKUP(E20,PotPrice,2,1)	=IF(D20=\$A\$2,acid*F20,IF(D20=\$A\$3,alkaline*F20,neutral*F20))	=G20+H20

COUNTIF Correct formulae 3 marks

Species Lookup used 1 mark
External file/sheet for code 1 mark
Correct range & return column 1 mark

Pot Named range PotPrice 1 mark
Correct Lookup formulae 1 mark

Soil Nested IF 1 mark
Correct named cells 3 marks
Correct formulae (3 parts) 3 marks

Li	=VLOOKUP(A25,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	3	1.08	=VLOOKUP(E25,PotPrice,2,1)	=IF(D25=\$A\$2,acid*F25,IF(D25=\$A\$3,alkaline*F25,neutral*F25))	=G25+H25
Li	=VLOOKUP(A26,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	4	1.44	=VLOOKUP(E26,PotPrice,2,1)	=IF(D26=\$A\$2,acid*F26,IF(D26=\$A\$3,alkaline*F26,neutral*F26))	=G26+H26
Wa	=VLOOKUP(A27,Code!\$A\$2:\$B\$15,2,1)	1	Neutral	3	2.53	=VLOOKUP(E27,PotPrice,2,1)	=IF(D27=\$A\$2,acid*F27,IF(D27=\$A\$3,alkaline*F27,neutral*F27))	=G27+H27
FM	=VLOOKUP(A28,Code!\$A\$2:\$B\$15,2,1)	2	Alkaline	2	0.75	=VLOOKUP(E28,PotPrice,2,1)	=IF(D28=\$A\$2,acid*F28,IF(D28=\$A\$3,alkaline*F28,neutral*F28))	=G28+H28
FM	=VLOOKUP(A29,Code!\$A\$2:\$B\$15,2,1)	2	Alkaline	3	0.95	=VLOOKUP(E29,PotPrice,2,1)	=IF(D29=\$A\$2,acid*F29,IF(D29=\$A\$3,alkaline*F29,neutral*F29))	=G29+H29

Replication All 4 formulae 1 mark
Orientation Landscape & fit to page 1 mark

Cost Correct cells added 1 mark

Sy	=VLOOKUP(A33,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	2	0.73	=VLOOKUP(E33,PotPrice,2,1)	=IF(D33=\$A\$2,acid*F33,IF(D33=\$A\$3,alkaline*F33,neutral*F33))	=G33+H33
Sy	=VLOOKUP(A34,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	3	0.82	=VLOOKUP(E34,PotPrice,2,1)	=IF(D34=\$A\$2,acid*F34,IF(D34=\$A\$3,alkaline*F34,neutral*F34))	=G34+H34
Sy	=VLOOKUP(A35,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	4	0.96	=VLOOKUP(E35,PotPrice,2,1)	=IF(D35=\$A\$2,acid*F35,IF(D35=\$A\$3,alkaline*F35,neutral*F35))	=G35+H35
Wi	=VLOOKUP(A36,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	2	0.87	=VLOOKUP(E36,PotPrice,2,1)	=IF(D36=\$A\$2,acid*F36,IF(D36=\$A\$3,alkaline*F36,neutral*F36))	=G36+H36
Wi	=VLOOKUP(A37,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	3	0.96	=VLOOKUP(E37,PotPrice,2,1)	=IF(D37=\$A\$2,acid*F37,IF(D37=\$A\$3,alkaline*F37,neutral*F37))	=G37+H37
Wi	=VLOOKUP(A38,Code!\$A\$2:\$B\$15,2,1)	2	Neutral	4	1.02	=VLOOKUP(E38,PotPrice,2,1)	=IF(D38=\$A\$2,acid*F38,IF(D38=\$A\$3,alkaline*F38,neutral*F38))	=G38+H38
Ye	=VLOOKUP(A39,Code!\$A\$2:\$B\$15,2,1)	2	Alkaline	2	3.85	=VLOOKUP(E39,PotPrice,2,1)	=IF(D39=\$A\$2,acid*F39,IF(D39=\$A\$3,alkaline*F39,neutral*F39))	=G39+H39
Ye	=VLOOKUP(A40,Code!\$A\$2:\$B\$15,2,1)	2	Alkaline	3	4.76	=VLOOKUP(E40,PotPrice,2,1)	=IF(D40=\$A\$2,acid*F40,IF(D40=\$A\$3,alkaline*F40,neutral*F40))	=G40+H40
Pp	=VLOOKUP(A41,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	3	1.09	=VLOOKUP(E41,PotPrice,2,1)	=IF(D41=\$A\$2,acid*F41,IF(D41=\$A\$3,alkaline*F41,neutral*F41))	=G41+H41
Pp	=VLOOKUP(A42,Code!\$A\$2:\$B\$15,2,1)	3	Alkaline	4	1.25	=VLOOKUP(E42,PotPrice,2,1)	=IF(D42=\$A\$2,acid*F42,IF(D42=\$A\$3,alkaline*F42,neutral*F42))	=G42+H42

Weighting 1dp 1 mark

PH	Species	Weighting	Psize	Rate
Acid		6	1.3	2 £0.12
Alkaline		23	0.9	3 £0.40
Neutral		7	1.0	4 £0.80

Rate, Bare, Pot, Soil, Cost
 2dp & Currency – sterling 1 mark

Code	Species	MaxSize	PH	Size	Bare	Pot	Soil	Cost
Al	Alder	2	Alkaline	2	£0.73	£0.12	£0.68	£0.80
Al	Alder	2	Alkaline	3	£0.95	£0.40	£0.88	£1.28
Al	Alder	2	Alkaline	4	£1.09	£0.80	£1.01	£1.81
As	Ash	3	Alkaline	3	£0.95	£0.40	£0.88	£1.28
As	Ash	3	Alkaline	4	£1.09	£0.80	£1.01	£1.81
Be	Beech	3	Alkaline	2	£0.77	£0.12	£0.71	£0.83
Be	Beech	3	Alkaline	3	£1.20	£0.40	£1.11	£1.51
Be	Beech	3	Alkaline	4	£1.57	£0.80	£1.46	£2.25
SB	Silver Birch	3	Acid	2	£0.79	£0.12	£1.00	£1.12
SB	Silver Birch	3	Acid	3	£1.00	£0.40	£1.27	£1.67
SB	Silver Birch	3	Acid	4	£1.10	£0.80	£1.40	£2.19
SC	Sweet Chestnut	3	Acid	2	£0.80	£0.12	£1.02	£1.14
SC	Sweet Chestnut	3	Acid	3	£1.00	£0.40	£1.27	£1.67
SC	Sweet Chestnut	3	Acid	4	£1.45	£0.80	£1.84	£2.64
HC	Horse Chestnut	3	Alkaline	2	£0.78	£0.12	£0.72	£0.84
HC	Horse Chestnut	3	Alkaline	3	£1.08	£0.40	£1.00	£1.40
HC	Horse Chestnut	3	Alkaline	4	£1.21	£0.80	£1.12	£1.92
Li	Lime	3	Alkaline	2	£0.87	£0.12	£0.81	£0.93
Li	Lime	3	Alkaline	3	£1.08	£0.40	£1.00	£1.40
Li	Lime	3	Alkaline	4	£1.44	£0.80	£1.34	£2.13
Wa	Walnut	1	Neutral	3	£2.53	£0.40	£2.53	£2.93
FM	Field Maple	2	Alkaline	2	£0.75	£0.12	£0.70	£0.82
FM	Field Maple	2	Alkaline	3	£0.95	£0.40	£0.88	£1.28
FM	Field Maple	2	Alkaline	4	£1.10	£0.80	£1.02	£1.82
Oa	Oak	3	Alkaline	2	£0.80	£0.12	£0.74	£0.86
Oa	Oak	3	Alkaline	3	£1.12	£0.40	£1.04	£1.44
Sy	Sycamore	2	Neutral	2	£0.73	£0.12	£0.73	£0.85
Sy	Sycamore	2	Neutral	3	£0.82	£0.40	£0.82	£1.22
Sy	Sycamore	2	Neutral	4	£0.96	£0.80	£0.96	£1.76
Wi	Willow	2	Neutral	2	£0.87	£0.12	£0.87	£0.99
Wi	Willow	2	Neutral	3	£0.96	£0.40	£0.96	£1.36
Wi	Willow	2	Neutral	4	£1.02	£0.80	£1.02	£1.82
Ye	Yew	2	Alkaline	2	£3.85	£0.12	£3.57	£3.69
Ye	Yew	2	Alkaline	3	£4.76	£0.40	£4.42	£4.82
Pp	Poplar	3	Alkaline	3	£1.09	£0.40	£1.01	£1.41
Pp	Poplar	3	Alkaline	4	£1.25	£0.80	£1.16	£1.96

Candidate name Centre number Candidate number

Step 21

Species	PH	Size	Cost
Alder	Alkaline	2	£0.80
Beech	Alkaline	2	£0.83
Horse Chestnut	Alkaline	2	£0.84
Lime	Alkaline	2	£0.93
Field Maple	Alkaline	2	£0.82
Oak	Alkaline	2	£0.86
Sycamore	Neutral	2	£0.85
Willow	Neutral	2	£0.99

Hidden Rows 1-5 1 mark
 Columns A, C, F, G, H 1 mark
 Search Cost <1 2 marks

Step 22

Species	PH	Size	Cost
Beech	Alkaline	4	£2.25
Silver Birch	Acid	4	£2.19
Sweet Chestnut	Acid	4	£2.64
Lime	Alkaline	4	£2.13

Search	Size = 4 AND Cost >2 All fields may be visible	2 marks
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STYLESHEET

- h1 { color: #000080; font-family: Arial, sans-serif; font-size:36pt; text-align: Center; font-weight: bold }
- h2 { color: #00FF00; font-family: Times New Roman, serif; font-size: 14pt; text-align: left }
- h3 { color: #0000FF; font-family: Arial, sans-serif; font-size: 12pt; text-align: left }
- li { color: #0000FF; font-family: Arial, sans-serif; font-size: 10pt; text-align: left }
- p { color: #000000; font-family: Arial, sans-serif; font-size: 10pt; text-align: left }

Candidate name Centre number Candidate number

Colour	all correct	1 mark
Font	all correct	1 mark
Size	all correct – including units	1 mark
Alignment	all correct	1 mark
h1	bold	1 mark

Top left Last edited by & Name, Centre and Candidate number in style p 1 mark

Heading style h1 from stylesheet 1 mark

Table 4 rows & 2 columns 1 mark
Merge cells in row 1 1 mark
Merge cells in row 4 1 mark
Merge rows 2 & 3 in 2nd col 1 mark
Correct text in each cell 1 mark

Last edited by Candidate name, centre number, candidate number

Rootrainer Trees

Our company grows all the plants to keep down the costs to the customer. Style h2 From stylesheet 1 mark

Plants for all soil types: Style p From stylesheet 1 mark

- acid
 - alkaline
 - neutral,
- Style li From stylesheet 1 mark

and for all environments: Style p From stylesheet 1 mark

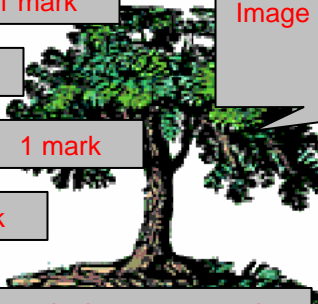
- deciduous
 - coniferous
 - evergreen.
- Style li From stylesheet 1 mark

You can contact us in many ways. Style h2 From stylesheet 1 mark

Through our website on-line - use our order form. By post - order our catalogue and complete the order form. By phone or fax - all contact details on this website. You can order our catalogue for a full listing of our services.

Home Page Try Bonsai Order Form Style h3 From stylesheet 1 mark

Menu Contains Specimen3.TXT 1 mark
Style h2 & Border = 0 1 mark



```
<HTML>  
<HEAD>  
  <TITLE>Homepage</TITLE>  
  <link rel="stylesheet" type="text/css" href="styles.css"  
</HEAD>  
<BODY>  
<p>Last updated by Candidate name, Candidate number, Centre number</p>  
<h1>Rootrainer Trees</h1>
```

External stylesheet attached 1 mark

```
<TABLE cellSpacing="5" cellPadding="3" width="100%" border=2>
```

```
<TR>  
  <TD colspan="2"><h2>Our company grows all the  
customer.</h2></TD>
```

Table 1 mark
Cell padding 3 1 mark
Cell spacing 5 1 mark
Border 2 1 mark

```
</TR>  
<TR>  
  <TD><p>Plants for all soil types:</p>  
    <li>acid</li>  
    <li>alkaline</li>  
    <li>neutral,</li>  
  <p>and for all environments:</p>  
    <li>deciduous</li>  
    <li>coniferous</li>  
    <li>evergreen.</li></TD>
```

```
<TD rowspan="2"></TD>
```

```
</TR>  
<TR>  
  <TD><h2>You can contact us in many ways.</h2></TD>
```

Image 1 mark
Height = "250"

```
</TR>  
<TR>  
  <TD colspan="2"><h3>Through our website on-line - use our order form. By post - order our  
catalogue and complete the order form. By phone or fax - all contact details on this website. You can  
order our catalogue for a full listing of our services.</h3></TD>  
</TR>  
</TABLE>
```

```
<TABLE cellSpacing="0" cellPadding="0" width="600" border="0">
```

```
<TBODY>  
<TR>  
  <TD><h2>Home Page </h2></TD>  
  <TD><h2><a href="SPECIMEN2.htm" target="_external">Try Bonsai</a></h2></TD>  
  <TD><h2>Order Form</h2></TD>
```

Hyperlink 1 mark
Correct file 1 mark
Target = "_external"

```
</TR>  
</TBODY>  
</TABLE>  
</BODY>  
</HTML>
```

Top left NAME & No's 1 mark

Last updated by Candidate name, Candidate number, Centre number

Rootrainer Trees, ideal for bonsai

Bonsai is the ancient Japanese art of training large trees to remain small

This is done using:

- Small pots
- Root pruning
- Wiring
- Pinching out

We offer small bare rooted trees much sought after by bonsai specialists

Please see our catalogue for details



External stylesheet attached 1 mark

```
<head>
<title>Bonsai from Rootrainer</title>
<link rel="stylesheet" type="text/css" href="styles.css"
</head>
<p>Last updated by Candidate name, Candidate number, Centre number</p>
<h1>Rootrainer Trees, ideal for bonsai</h1>
```

```
<table border="0" cellpadding="0" cellspacing="0" width="800" height="300">
```

```
<tr>
<td width="220" height="300">
<h3><b>Bonsai is the ancient Japanese art of training large trees to remain small</b></h3>
<p>This is done using:</p>
<li>Small pots</li>
<li>Root pruning</li>
<li>Wiring</li>
<li>Pinching out</li>
```

Image In this cell 1 mark

```
<h3>We offer small bare rooted trees much sought after by bonsai specialists</h3>
<p>Please see our catalogue for
```

Image Width 250 1 mark

```
</td>
<td><img alt="Bonsai tree" style="width: 250px; height: 150px;"/>
</td>
```

Image Replaced text 1 mark

```
</tr>
```

</table>

</body>

Image	Width 40	1 mark
	Height 60	1 mark
Hyperlink		1 mark

Heading	Dark blue, centre aligned, 48 point	1 mark
Subheading	Dark blue, left aligned, 30 point	1 mark


The screenshot shows a presentation slide with a light blue background. At the top right is a small green tree logo. The main title 'Rootrainer Trees' is centered in a large, dark blue font. Below the title is a red rectangular text box with a dashed border containing the text 'Growing trees for you, your children, your grandchildren ...'. At the bottom left, there is a placeholder for 'Candidate name & Today's date'. At the bottom right, the number '1' is displayed. Below the slide is a 'Presenter notes' area with the text 'Introduce yourself and your role within the company.' and a standard presentation software toolbar.

Presenter notes	on all slides	1 mark
	100 % Correct	1 mark
	right place	1 mark

Master slide - CHECK CONSISTENCY		
Logo	Tree, top right	1 mark
Page numbering	Bottom right & automated	1 mark
Name and date	bottom left	1 mark
All 3	Not overlapping text or object	1 mark

Heading	Dark blue, centre aligned, 48 point	1 mark
Top Bullets	Black, left aligned, 18 point, consistent	1 mark
Subheading	Dark blue, left aligned, 30 point	1 mark
2 nd Bullets	Black, left aligned, 18 point, consistent	1 mark


Plants for all soil types:



- 1 • Acid
- 2 • Alkaline
- 3 • Neutral

and for all environments

- 4 • Deciduous
- 5 • Coniferous
- 6 • Evergreen



Candidate name & Today's date

2

We have offices on every continent.

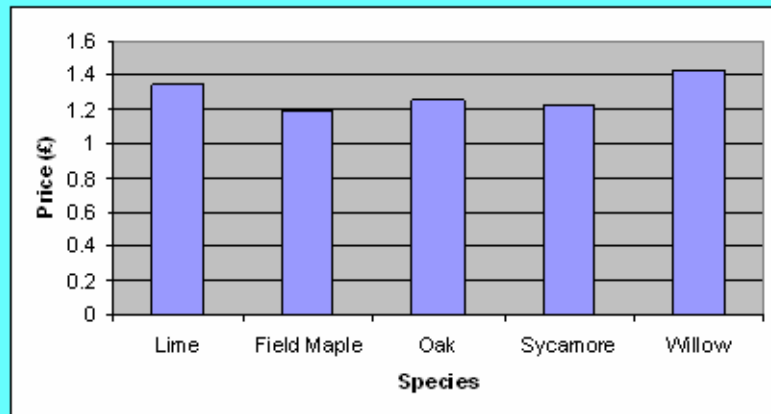
Image	SPECIMEN6.jpg	1 mark
	Fills most of right side	1 mark
	No overlap	1 mark
2 nd Bullets	Black, left aligned, 18 point, consistent	1 mark
Line	Thin & dark blue	1 mark
	Vertical	1 mark

Heading Dark blue, centre aligned, 48 point 1 mark
Bullets Black, left aligned, 18 point, consistent 1 mark
Consistent with slide 2 1 mark

Price calculation



- By formulae
- Relative to pot size
- Sample prices



Candidate name &
Today's date

3

Chart Correct chart 1 mark
Species names visible 1 mark
Species label 1 mark
Price (£) label 1 mark
Right side 1 mark

Audience notes

Printed with space to annotate
3 / slide

1 mark

1 mark

Rootrainer Trees

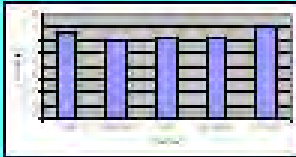
Growing trees for you, your children, your grand children ...

Plants for all soil types:

and for all environments:



Price calculation



Animation Bullets only 2 marks

Plants for all soil types:

- 1 • Acid
- 2 • Alkaline
- 3 • Neutral

and for all environments

- 4 • Deciduous
- 5 • Coniferous
- 6 • Evergreen

Candidate name & Today's date

2

Effect: Remove

Motion effect

Start: []

Property: [] Speed: []

- 1 ✓ Acid
- 2 ✓ Alkaline
- 3 ✓ Neutral
- 4 ✓ Deciduous
- 5 ✓ Coniferous
- 6 ✓ Evergreen

Re-Order

Transition slides 2 and 3 2 marks

1 2 3

Slide Transition

Apply to selected slides:

- No Transition
- Blinds Horizontal
- Blinds Vertical
- Box In
- Box Out
- Checkerboard Across
- Checkerboard Down
- Comb Horizontal
- Comb Vertical
- Cover Down
- Cover Left
- Cover Right
- Cover Up
- Cover Left-Down
- Cover Left-Up
- Cover Right-Down

Modify transition