

A

Absolute referencing, 119–120, 128, 130, 133–134
Access (Microsoft), 9, 11–12
ActiveX controls, 232–233
Add-ins, 8–15, 28
Aggregation functions, 87, 252
Alignment, 187, 262, 402
Amortisation schedule, 181–182, 185
Ampersand, 67
Analysis ToolPak, 13
AND, 114–115
Area chart, 373, 377
Array formulas, 240–247, 318, 326, 344, 346
Assumptions documentation, 6, 40, 47, 55–56, 59–71, 72, 77–78, 210
Assumptions layout, 31–33
Audit tool, 14
AVERAGE, 111
AVERAGEIFS, 133, 136–137, 138, 140
Axes, 330, 370, 371, 379, 394, 396, 400

B

Balanced scorecard, 6
Bar chart, 196, 370–377, 387, 401, 410, 411, 412
Benchmarking, 5

Best practice, 3, 6–7, 23, 25–26, 34, 46–49, 55–72, 78, 82–84, 119–122, 154, 155, 171, 242, 249, 283, 291, 315, 328, 337, 338
Binary code, 230–231
Boolean logic, 230–231
Break-even analysis, 307–313
Break-even point, 307–310
Bubble chart, 378, 380, 400–403, 405
Bulletproofing, 341
Business case, 2, 20, 34, 59, 67, 78, 174, 284, 288, 339, 368, 369

C

Cell link, 223, 224, 226, 229, 358, 360
Cell referencing, 57–58, 119–122, 128, 296, 305, 331, 332, 356
Charts, 5–6, 8, 36–37, 41–43, 45, 47–48, 196, 200, 201, 216, 221, 307, 326, 330, 367–420
Chart type, 202, 372, 373, 374, 381, 387, 394
Check boxes, 203
CHOOSE, 164–165, 359–360
Circular reference, 90–94, 270
Colour coding, 38, 57–58, 232
Colour scales, 197–199, 200, 347, 348
Column chart, 375–380
Combination charts, 330, 378, 379

Combo box drop-down, 341, 357, 358–360, 362
 Communication, 22–24, 25
 Compounding, 100, 180–181, 274–277, 278–283
 CONCATENATE, 67
 Conditional formatting, 5, 41, 88, 187, 193–196, 197, 199–200, 253, 347, 349–353
 Control key, 234, 261
 Cost of capital, 20, 67, 174–175, 180, 288–292
 COUNT, 108, 109, 111
 COUNTIF, 89, 98, 127–131, 134
 COUNTIFS, 127, 133–136, 139
 Cover sheet, 22–23, 35, 36, 51
 CSE formulas, 242
 Cumulative totals, 283–284, 415
 Currency symbols, 189–191, 400
 Custom formatting, 172, 187–193

D

Dashboard, 3, 6, 378, 410
 Data bars, 195, 196–197, 200
 Data collection, 45–46
 Data tables, 40, 243, 318, 344–349, 362–364
 Data validation, 61, 210–213, 215, 340, 341, 355–360, 363
 Data validation drop-down, 357
 Data validation input messages, 61
 Dates, 35, 63, 166–173, 188, 199, 277–278, 407, 411
 DAY, 170
 DB, 298–301
 DDB, 301–302
 Debt, 93, 174, 180–181, 343
 Declining balance value methods, 300–303
 Depreciation methods, 296–300
 Design skills, 21–22, 28, 31–33

Developer tab, 216–217, 263
 Discount rate, 290–292
 #DIV/0!, 49, 90
 Donut charts, 377–378, 379
 Double declining balance method, 301–302
 Drop-down boxes, 36, 40, 44, 123, 215, 341

E

Edit links, 52, 84, 85, 326
 EFFECT, 181, 278–282
 Effective rates, 278, 281
 Enter key, 75–76, 322
 EOMONTH, 13, 167–168, 305
 Equity, 174, 290–292
 Error checks, 37, 74–75, 85, 89–90, 95, 131, 185
 Excel 2003 (Microsoft), 12, 14, 101, 195, 327
 Excel 2007 (Microsoft), 11, 14, 95, 101, 103, 167, 179, 181, 195, 196, 197, 201, 209, 215, 217, 252, 324, 375, 385, 387, 399
 Excel 2010 (Microsoft), 7, 9, 10, 11, 15, 16, 101, 102, 200, 217, 256, 261, 380, 385
 Excel (Microsoft) versions, 44, 189
 Exponential operations, 277–278

F

F9, 106, 108, 113, 308, 322, 326
 File size, 44, 324, 327
 File structure, 52–53
 Filter, 57–58, 138–141, 256–262
 Financial functions, 99, 174
 Fixed declining balance method, 300
 Fixed interest rate, 185

- Font, 22, 38, 51, 56, 63, 100, 187, 192, 195, 230, 267, 347, 354, 357, 368
- Footnoting, 63–64, 64, 72
- Format control, 225–227, 230–231
- Formatting, 4–5, 22, 37, 40–41, 57–58, 63, 68–70, 88, 105, 109, 158, 171, 172, 187–200, 203, 232, 252, 253, 266–267, 311, 325–326, 333, 347, 349–353, 369, 402
- Formatting: basic, 187
- Formatting: custom, 68, 188
- Form control, 216–217, 218, 232, 263, 269, 341, 358
- Formula, 1, 4–5, 14–19, 25–26, 32, 34, 38, 46–49, 51, 56–58, 65, 67–72, 75–80, 81–83, 111, 113, 116, 166, 173, 175–186, 193, 195, 205, 207, 208, 210, 216, 221, 224, 229, 230–231, 233, 238–247, 252, 270–271, 280–287, 290–292, 298–310, 315–323, 344–346, 349–353, 389–390, 391, 405, 407, 411, 412, 415, 416
- Formula auditing, 92, 316–318, 321–322, 332, 349
- Formula errors, 13, 75–80
- Function, 9, 14–19, 22, 25–26, 32, 44–46, 52, 67–72, 87–91, 97–119, 187–188, 192, 193, 195, 201, 217, 224, 229, 232, 233, 243, 262, 278–280, 286, 290, 292, 294, 298, 300, 301–302, 303–305, 318, 326, 338, 344, 345, 346, 350, 359–360, 386, 389, 391, 405
- Function Wizard, 113
- Funding, 94, 339
- FVSCCHEDULE, 276
- ## G
- Golden rules, 33–35
- Grouping, 192, 233, 238–239
- Growth, 5, 31–32, 59, 66, 73, 82, 100, 273–279, 290–291, 332
- ## H
- Hiding, 200, 204, 210, 233–239, 387
- HLOOKUP, 98, 146, 148–152, 286, 287
- Hurdle rate, 174
- Hyperlinks, 60, 64–65, 72
- ## I
- IF, 24, 56, 86–90, 97–98, 112–118, 138, 229, 278, 293, 356
- IFERROR, 90
- In-cell comments, 60–61, 211
- INDEX, 84, 97, 153–156, 224, 229, 286, 295, 326, 360
- Indexation, 77, 273, 278, 333, 340
- Inflation, 36–37, 74, 278
- Information requests, 50–51
- Inherited model, 315–316
- Input sheet, 36, 37
- Interest, 1, 4–5, 9, 27, 73–74, 93–94, 99, 167, 173–180, 247–249, 262, 273, 275–277, 278–280, 291, 310, 339–340, 342–364
- Interest calculations, 167
- Interest calculations: circular reference, 90–94, 270
- IPMT, 183–185
- IRR, 20, 97–98, 173–180
- Iterative calculations, 94–95
- ## K
- Key assumptions, 22, 36, 55–56, 78, 368, 369
- KPI, 5

L

Labelling, 57–58, 331
Line chart, 307–308, 309–310,
370–371, 373, 388, 398, 417
Linked text, 67, 72
Linking, 3, 6, 47, 52–53, 56–58, 67,
72, 82–86, 95, 123, 133, 134,
153–154, 215, 245, 283, 316,
338, 351
Linking: to external files, 84, 95
Loan calculations, 180–188, 278,
290
Loan rates, 280
Locking cells, 207
Logic, 2, 20, 24, 28, 31–32, 35–38,
41, 46–49, 52, 70–72, 78, 98,
109, 113, 169, 220, 221, 230,
316, 318, 322, 330–336, 365
Logical functions, 98, 112
Logic errors, 48, 78–79
LOOKUP, 119, 140, 147–150,
284–287
Lookup functions, 140, 150, 286,
294

M

Macro, 19, 25, 44, 50, 57–58, 93,
123, 217, 233, 236–237, 252,
262–271, 361
Macro: buttons, 262
Management report, 3, 13, 252
Manual sensitivity analysis, 355
MATCH, 84, 147–149, 152, 153,
154–155, 286, 295
MAX, 98, 110
Methodology, 28, 72, 79–80, 124,
355, 365, 368, 420
Microsoft products. See Access
(Microsoft); Excel 2003
(Microsoft); Excel 2007

(Microsoft); Excel 2010
(Microsoft); Power Pivot
(Microsoft); Project (Microsoft)

MIN, 110, 111
Mixed referencing, 57–58, 120
Model audit, 76, 329
Model layout 16, 32, 45
MONTH, 169

N

#N/A, 90, 146
#NAME?, 320
Named ranges, 14, 47, 84–85,
122–123, 125–126, 142–143,
156, 215, 388–391, 396
Nested formulas, 115–119
NOMINAL, 180–181, 278–283,
331
Nominal rates, 180, 282
NOW(), 166, 187–188
NPV, 35, 67, 99, 173–176, 179,
290, 292, 369
Number formats, 188, 191
Numeracy, 23–24, 28

O

OFFSET, 157–158, 160, 316, 326,
389–390, 391
Option button, 216, 221, 222–224
OR, 115
Oral presentation, 367–368

P

Password protection, 204, 237
Payback period, 173–174, 176,
284–288
Period, 35, 58, 94, 173–180,
273–274, 277, 280–288, 297,
300–304, 371, 407, 410, 411

Pie chart, 374, 377, 381
PivotTable, 57–58, 130, 132–133, 169, 233, 252–262
PMT, 99, 180–188, 247–248, 344–346, 350
Power Pivot (Microsoft), 7, 9–12, 13, 15, 17, 101, 102, 127
PPMT, 184–188
Pricing, 2, 20, 32–33, 36–37, 52–53, 78, 84, 116–119, 150, 151, 270, 291, 293, 294, 307, 311, 329
Pricing model, 20, 32–33, 51, 291, 293
Principal, 180–188, 273, 275
Profit, 2, 5, 20, 25, 35, 70, 93–94, 388, 398, 405, 410
Progressive tiering table, 294
Project evaluation, 173–180, 288, 290
Project (Microsoft), 5, 9, 12, 13
Project planning, 5, 12–13, 52
Protection, 49, 204–207, 211, 237–239, 323, 332
Purpose of model, 336

Q

QA log, 333, 336
QA (Quality Assurance), 48, 328–336

R

Radar chart, 375
Radio button, 221, 223
Rate, 1, 2–15, 20–24, 31–39, 46–49, 52, 55–56, 58, 66, 69–70, 79, 80, 84, 94–95, 100, 108, 120, 173–180, 247, 248, 249, 273–284, 288–307, 309–310, 338–339, 341–351, 354–355

Redundant assumptions, 316
#REF!, 160, 316, 367
Regression, 161
Relative referencing, 120
Remove duplicates, 252
Repayments, 173, 180–188, 247–248, 344, 350
Ribbon, 93, 172, 187–188, 201–203, 209, 217, 222, 250, 256, 262, 265–266, 317, 318, 321, 323, 326, 380, 381, 385, 397, 398, 400, 406–407, 416
ROUND, 192, 193, 195

S

Scenario Manager, 341–344
Scenario methods, 341, 353–354, 355, 362, 365
Scenarios, 2, 3, 40, 43, 51, 78, 112, 243, 284, 287, 313, 330, 337–346, 348–349, 354, 362, 363–365, 367–368
Security settings, 263, 264, 270
Sensitivity analysis, 4, 56, 78, 241, 243, 283, 284, 330, 337–340, 343–344, 355, 367, 369, 387
Sensitivity testing, 369, 420
Shortcuts, 90, 103–106, 318, 322–323
64-bit Excel, 15–17
Slicer, 101, 256–262
SLN, 298–299, 300, 304–305
Solver, 13, 14
Sparklines, 200–203, 380
Spin button, 36, 224–227
Spreadsheet, 1–5, 7, 13, 22, 25, 28, 44, 67, 73–74, 76–77, 85, 124, 188, 195, 205, 269, 276, 316, 318, 323, 327–330, 343
Spreadsheet Detective, 332

Stress-testing, 49, 77–78, 337–340, 344–345, 365
Structured Reference Tables, 57, 249–251, 255, 261, 389
Styles, 39, 56, 158, 195, 196, 250, 252, 350
SUM, 97, 108, 115–116, 243, 284, 287
SUMIFS, 13, 127, 130–133, 134–136, 138, 140, 252
SYD, 298, 303

T

Tables, 10, 57, 249–251
Tax, 20, 36, 98, 270, 280–281, 291, 294–297, 306–307
TEXT, 68–70, 160, 407
32-bit Excel, 15–17
Tiering table, 119, 143, 293–294
Time series, 35, 371, 373, 377
TODAY(), 166, 188
Tool selection, 73–74
Trace error, 320
Tracing dependents, 318
Tracing precedents, 317
Training course, 26–27, 28, 262
TRANSPOSE Array Function, 243–247
TREND, 161, 164
TRIM, 146

U

User-friendly (features), 35, 44, 70–71, 227, 241, 256

V

Variance analysis, 2, 25, 195
VBA, 13, 228, 237, 262, 266–268, 357
Version control, 51–53
Visual Basic Editor, 238
VLOOKUP, 19, 90, 97–98, 119, 141–150, 152, 153, 154, 210, 248, 293–294, 356, 360

W

Waterfall, 407–419
WEEKDAY, 166, 168, 169
Weighted average cost of capital (WACC), 36, 175, 288–292
What-if analysis, 338–339, 343

X

XIRR, 179–180
XNPV, 179–180

Y

YEAR, 169

