

2 EGR 120
 3 Introduction to Engineering
 4 File: Lookup.xls

6 Using lookup tables in MicroSoft Excel

8 Problem: Use a **LOOKUP TABLE** and a **LOOKUP FUNCTION** to determine the age
 9 category for each person in the bottom table. The LOOKUP FUNCTION has the form:
 10 LOOKUP(Comparison value,Block of ranges,Block of values for each range)

Age	Category
0	Infant
1	Child
13	Teenager
20	Adult
55	Senior

13 Shown to the left is the lookup table. The LOOKUP
 14 FUNCTION will refer to this table. The table works as follows:
 15 If Age < 0: Invalid
 16 If 0 ≤ Age < 1: Infant
 17 If 1 ≤ Age < 13: Child
 18 If 13 ≤ Age < 20: Teenager
 19 If 20 ≤ Age < 55: Adult
 20 If 55 ≤ Age: Senior

Last Name	First Name	Age	Category
Smith	Joseph	0.5	Infant
Jones	Mary	17	Teenager
Thomas	Gene	12	Child
Atkins	John	65	Senior
Gordon	Sarah	45	Adult
White	Susan	35	Adult
Carlson	Tim	20	Adult
Doe	John	19	Teenager
Butler	Frank	1	Child
Green	Rachel	13	Teenager
Brown	Jim	54	Adult
Edwards	Tina	55	Senior

← Cell E23 contains
 the formula:
 =LOOKUP(D23,B\$15:B\$19,C\$15:C\$19)

36 The information in the first three columns of the table above were provided.
 37 The values in the fourth column were found using the LOOKUP function.