

fun. Compound interest is remarkable, as demonstrated by the schedule below. Michael and Justin both decided to save one thousand dollars a year. The problem is, Michael started right away and then stopped after eight years, leaving the money in an investment earning 10 percent compounded annually. While it is not recommended that anyone set out to be as foolish as Michael and stop saving after only eight years, even that is much more intelligent than starting later, as did Justin. Even with the consistency of Justin's savings program once he got over his procrastination, he was unable to catch the growth of Michael's account. That's because of the phenomenon of compound interest. The moral of the story is this: Sooner is better than later.

AGE	Michael Invests	Total after Compounding Interest	Justin Invests	Total after Compounding Interest
22	\$ 1,000	\$ 1,100	0	0
23	\$ 1,000	\$ 2,310	0	0
24	\$ 1,000	\$ 3,641	0	0
25	\$ 1,000	\$ 5,105	0	0
26	\$ 1,000	\$ 6,716	0	0
27	\$ 1,000	\$ 8,488	0	0
28	\$ 1,000	\$10,437	0	0
29	\$ 1,000	\$12,581	0	0
30	0	\$ 13,839	\$ 1,000	\$ 1,100
31	0	\$ 15,223	\$ 1,000	\$ 2,310
32	0	\$ 16,745	\$ 1,000	\$ 3,641
33	0	\$ 18,420	\$ 1,000	\$ 5,105

34	0	\$ 20,262	\$ 1,000	\$ 6,716
35	0	\$ 22,288	\$ 1,000	\$ 8,488
36	0	\$ 24,517	\$ 1,000	\$ 10,437
37	0	\$ 26,969	\$ 1,000	\$ 12,581
38	0	\$ 29,666	\$ 1,000	\$ 14,939
39	0	\$ 32,633	\$ 1,000	\$ 17,533
40	0	\$ 35,896	\$ 1,000	\$ 20,386
41	0	\$ 39,486	\$ 1,000	\$ 23,525
42	0	\$ 43,435	\$ 1,000	\$ 26,978
43	0	\$ 47,779	\$ 1,000	\$ 30,776
44	0	\$ 52,557	\$ 1,000	\$ 34,954
45	0	\$ 57,813	\$ 1,000	\$ 39,549
46	0	\$ 63,594	\$ 1,000	\$ 44,604
47	0	\$ 69,953	\$ 1,000	\$ 50,164
48	0	\$ 76,948	\$ 1,000	\$ 56,280
49	0	\$ 84,643	\$ 1,000	\$ 63,008
50	0	\$ 93,107	\$ 1,000	\$ 70,409
51	0	\$102,418	\$ 1,000	\$ 78,550
52	0	\$112,660	\$ 1,000	\$ 87,505
53	0	\$123,926	\$ 1,000	\$ 97,356
54	0	\$136,319	\$ 1,000	\$108,192
55	0	\$149,951	\$ 1,000	\$120,111
56	0	\$164,946	\$ 1,000	\$133,282
57	0	\$181,441	\$ 1,000	\$147,644
58	0	\$199,585	\$ 1,000	\$163,508
59	0	\$219,544	\$ 1,000	\$180,959
60	0	\$241,498	\$ 1,000	\$200,155