## Interest Calculations Example 1

Principal	\$	200,000		
Annual interest rate	10%			
Date borrowed	Janu	uary 1, 2006		

## Simple interest method

Year	Principal	Annual interest rate	Interest expense		Interest Cumluative expense interest		umluative interest	Principal + Cumulative interest	
2006	\$ 200,000	10%	\$	20,000	(*1)	\$	20,000	\$	220,000
2007	\$ 200,000	10%	\$	20,000	(*1)	\$	40,000	\$	240,000
2008	\$ 200,000	10%	\$	20,000	(*1)	\$	60,000	\$	260,000
2009	\$ 200,000	10%	\$	20,000	(*1)	\$	80,000	\$	280,000
2010	\$ 200,000	10%	\$	20,000	(*1)	\$	100,000	\$	300,000

(\*1) \$200,000 x 10% = \$20,000

## Compound interest method

Year	Principal	Annual interest rate	Interest expense			Cumluative interest		Principal + Cumulative interest	
2006	\$ 200,000	10%	\$	20,000	(*2)	\$	20,000	\$	220,000
2007	\$ 200,000	10%	\$	22,000	(*3)	\$	42,000	\$	242,000
2008	\$ 200,000	10%	\$	24,200	(*4)	\$	66,200	\$	266,200
2009	\$ 200,000	10%	\$	26,620	(*5)	\$	92,820	\$	292,820
2010	\$ 200,000	10%	\$	29,282	(*6)	\$	122,102	\$	322,102

(*2)	\$200,000 x 10% = \$20,000
(*3)	(\$200,000 + \$20,000) x 10% = \$22,000
(*4)	(\$200,000 + \$20,000 + \$22,000) x 10% = \$24,200
(*5)	(\$200,000 + \$20,000 + \$22,000 + \$24,200) x 10% = \$26,620
(*6)	(\$200,000 + \$20,000 + \$22,000 + \$24,200 + \$26,620) x 10% = \$29,282