























































Stra Exa	aigł amp	nt-Line ole	e N	lethoo	ł		in the	je starter and the starter and
Ba five	ss Co year	o. will re s. Total	cord depr life	\$4,200 d reciation e of the b	epi ov ooa	reciation ea er the estin t is:	nch ye nated	ear for useful
	Dep	reciation	Acci	umulated	Α	ccumulated	Unde	epreciated
	Đ	pense	Dep	reciation	D	epreciation	В	alance
Year	(debit)	(credit)		Balance	(bo	ok value)
							\$	24,000
2008	\$	4,200	\$	4,200	\$	4,200		19,800
2009		4,200		4,200		8,400		15,600
2010		4,200		4,200		12,600		11,400
2011		4,200		4,200		16,800		7,200
2012		4,200		4,200		21,000		3,000
18	\$	21,000	\$	21,000		Salvage Va	alue	













Stra Exa	aigh amp	nt-Line ole	e N	lethoo	ł		No.	i i i i i i i i i i i i i i i i i i i
Ba five	ss Co year	o. will re rs. Total	cord depi lif	\$4,200 d reciation e of the b	epre ove ooat	eciation ea r the estin is:	ach y natec	ear for I useful
	Dep	reciation	Acc	umulated	Ac	cumulated	Und	epreciated
	Ex	pense	Dep	reciation	De	preciation	E	Balance
Year	(debit)	(credit)	Balance		(book value)	
							\$	24,000
2008	\$	4,200	\$	4,200	\$	4,200		19,800
2009		4,200		4,200		8,400		15,600
2010		4,200		4,200		12,600		11,400
2011		4,200		4,200		16,800		7,200
2012		4,200		4,200		21,000		3,000
	\$	21,000	\$	21,000	_[Salvage Va	alue	





Dou Exa Co	ub m m	le-De nole pute o boat	ec de t's	clini prec s est	ng :ia im	Bala tion fo ated u	or t	CCE ³ the rest of ful life.	of	the
						Depr.	Ac	cumulated		Book
Year		Comput	ati	on	E	Expense		epreciation	`	√alue
2008	\$	24,000	×	40%	\$	9,600	\$	9,600	\$	14,400
2009	\$	14,400	×	40%	\$	5,760	\$	15,360	\$	8,640
2010	\$	8,640	×	40%	\$	3,456	\$	18,816	\$	5,184
2011	\$	5,184	×	40%	\$	2,074	\$	20,890	\$	3,110
2012		Plug ye	ar	#5	\$	110	\$	21,000	\$	3,000
Total D	Dep	reciation			\$	21,000				
24										



Total depreciation over the estimated useful life of an asset is the same using either the straight-line method or the declining-balance method. Depr. Accumulated Book Year Computation Expense Bepreciation Value 2008 \$ 24,000 × 40% \$ 9,600 \$ 9,600 \$ 14,400 2009 \$ 14,400 × 40% \$ 5,760 \$ 15,360 \$ 8,640
Depr. Ccumulated Book Year Computation Expense Depreciation Value 2008 \$ 24,000 × 40% \$ 9,600 \$ 9,600 \$ 14,400 2009 \$ 14,400 × 40% \$ 5,760 \$ 15,360 \$ 8,640
Year Computation Expense epreciation Value 2008 \$ 24,000 × 40% \$ 9,600 \$ 9,600 \$ 14,400 2009 \$ 14,400 × 40% \$ 5,760 \$ 15,360 \$ 8,640
2008 \$ 24,000 × 40% \$ 9,600 \$ 9,600 \$ 14,400 2009 \$ 14,400 × 40% \$ 5,760 \$ 15,360 \$ 8,640
2009 \$ 14,400 × 40% \$ 5,760 \$ 15,360 \$ 8,640
2010 \$ 8,640 × 40% \$ 3,456 \$ 18,816 \$ 5,184
2011 \$ 5,184 × 40% \$ 2,074 \$ 20,890 \$ 3,110
2012 Plug year # 5 \$ 110 \$ 21,000 \$ 3,000
Total Depreciation \$ 21,000

















Impairment of Assets

If the cost of an asset cannot be recovered through future use or sale, the asset should be *written down* to its net realizable value.











Disposal of Plant and Equipment Example



On September 30, 2009, Evans Map Company sells a machine that originally cost \$100,000 for \$60,000 cash. The machine was placed in service on January 1, 2004. It has been depreciated using the straight-line method with an estimated salvage value of \$20,000 and an estimated useful life of 10 years.

Let's answer the following questions.



The amount of depreciation recorded on September 30, 2009, to bring depreciation up to date is: a. \$8,000. (b.) \$6,000. c. \$4,000. d. \$2,000.	Disposal o Example	f Plant and Equipment	
a. \$8,000. (b) \$6,000. c. \$4,000. d. \$2,000. b. \$2,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$2,000. c. \$4,000. c. \$4,000. c. \$4,000. c. \$2,000. c. \$4,000. c. \$4,000. c. \$2,000. c. \$4,000. c. \$4,000.	The ar recorded to bring d	nount of depreciation on September 30, 2009, epreciation up to date is:	
	a. \$8,000. b. \$6,000. c. \$4,000. d. \$2,000.	Annual Depreciation: (\$100,000 - \$20,000) ÷ 10 Yrs. = \$8, Depreciation to Sept. 30: 9/12 × \$8,000 = \$6,000	000



Disposal of Plant and Equipme	nt
Example	

After updating the depreciation, the machine's book value on September 30, 2009, is:

- a. \$54,000.
- b. \$46,000.
- c. \$40,000.
- d. \$60,000.





















Allocating Installment Payments Between Interest and Principal

- 1. Identify the unpaid principal balance.
- 2. Unpaid Principal × Interest rate = Interest expense.
- 3. Installment payment Interest expense = Reduction in unpaid principal balance.
- 4. Compute new unpaid principal balance.



Allocating Installment Payments Between Interest and Principal

On January 1, 2010, Rocket Corp. borrowed \$7,581.57 from First Bank of River City. The Ioan was a five-year Ioan and had an interest rate of 10%. The annual payment is \$2,000.



Prepare an amortization table for Rocket Corp.'s loan.



Allocat	ing Insta	allmen	t Paymer	nts
Betwee	<u>en Intere</u>	<u>est and</u>	<u>Principa</u>	
		Interest	Reduction in Unpaid	Unpaid
Date	Payment	Expense	Balance	Balance
Jan. 1, 2010				\$ 7,581.57
Dec.31, 2010	\$ 2,000.00	\$ 758.16	\$ 1,241.84	6,339.73
Dec.31, 2011	2,000.00	633.97	1,366.03	4,973.70
Dec.31, 2012	2,000.00	497.37	1,502.63	3,471.07
Dec.31, 2013	2,000.00	347.11	1,652.89	1,818.18
Dec.31, 2014	2,000.00	181.82	1,818.18	(0.00)
Now,	, prepare the De	e entry for cember 31	the first paym 1, 2010.	ient on



Alloca Betwe	ating I een Ir	n nt	stallme erest a	ent Pa nd Pi	ay rii	yments ncipal	
The ir fou amo	nformatio and on th punt, the credit t	on in in	needed fo amortizatio terest expo principal a	r the jou on table ense, an ire all or	uri nd n t	nal entry ca The payme the amoun he table.	an be ent it to
Asse	ets	_	Liabili	ties	+	Equi	ty
Cash	-2000		Note Payable	-1241.84		Interest Exp.	-758.16
47							

Bonds Payable

Г

- Bonds usually involve the borrowing of a large sum of money, called principal.
- The principal is usually paid back as a lump sum at the end of the bond period.
- Individual bonds are often denominated with a par value, or face value, of \$1,000.





Bonds Payable

- Bonds are issued through an intermediary called an underwriter.
- Bonds can be sold on organized securities exchanges.
- Bond prices are usually quoted as a percentage of the face amount.
 - For example, a \$1,000 bond priced at 102 would sell for \$1,020.







Acco	unting	f	or Bond	ds Pa	ıy	vable	ĥ
On Jai 12% se Assum	nuary 1, 20 %, 10-year miannually e the bond)1 bo y, Is	0, Rocket C onds payab each June are issued suance of th	orp. iss le. Inte 30 and l at face ne bond	va s.	es \$1,500,00 st is payabl ecember 31. alue. Recore	d the
A	ssets	_	Liabilit	ies	+	Equity	/
Cash	+1500000		Bonds Payable	+1500000			
Cash	+1500000		Bonds Payable	+1500000			





Record the first interest payment on June 30, 2010.

Assets	5	=	Liabilities	+	Equit	:y
Cash	-90000				Interest Exp.	-90000

Acco	ounting	for Bor	nds Pa	ıy	able	Ŵ
R	ecord the	e last int	erest p	a	yment o	on
	De	cember	51, 20	13		
A	ssets	= Liabi	lities	+	Equi	ity



	Accou issued	inting d at a	f c	or Bon liscoun	ds Pa t	ay	/able	ľ	Į
	On Janu 12%, sem	ary 1, 20 10-year I iannually Assume	1(b(/,)	0, Rocket C onds payab each June the bonds a	orp. iss le. Inte 30 and are issu	re De	es \$1,500,000 st is payable ecember 31. I at 89.) of	
		Record	l t	he issuanc	e of the	b	onds.		
	Asse	ets	=	Liabilit	ies	+	Equity		
	Cash	+1,335,000		Bonds Payable	+1500000				
				Discount on Bonds Payable	-165000				
55									

Accounting for Bonds Payable



Record the first interest payment on June 30, 2010. Assume that any premium/discount is amortized straight-line

	Assets		=	Liabilit	ies	+	Equit	у
Cash		-90000		Discount on Bonds Pay.	+8250		Interest Exp.	-98250

Accounting for Bonds Payable



Record the last interest payment on December 31, 2019.

Assets			= Liabilities		+	Equity		
Cash		-1,590,000	В	Bonds Pay.	-1,500,000		Interest Exp.	-98,250
			D	Discount on				
			В	Bonds Pay.	+8,250			

Accounting for Bonds Payable



What would happen if a bond were issued at a premium?

YOU tell me!





The selling price of the bond is determined by the market based on the time value of money.

- Present Value of the Principal (a single payment)
- + Present Value of the Interest Payments (an annuity) = Selling Price of the Bond

The Present Value Concept and Bond Prices

The selling price of the bond is determined by the market based on the time value of money.

Inte	erest		Bond	Accounting for the Difference		
Ra	ates		Price			
Stated	Market	Bond	Par Value	There is no difference		
Rate	= Rate	Price	= of the Bond	to account for.		
Stated	Market	Bond	Par Value	The difference is accounted		
Rate	< Rate	Price	< of the Bond	for as a bond discount.		
Stated	Market	Bond	Par Value	The difference is accounted		
Rate	> Rate	Price	> of the Bond	for as a bond premium.		









