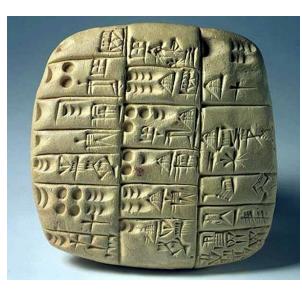
"Gradually, then suddenly"

Accelerating Access, Achievement and Affordability in Education

Paul F. Corey President, Pearson Science, Business & Technology

World Academy Forum on the Future of Global Education University of California at Berkeley – October 2-3, 2013







3100 B.C.

120 B.C.





100 A.D.

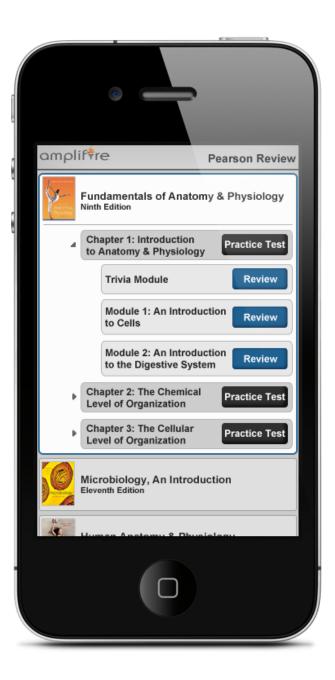
	the next integrate both soles of Eq. 6.3. For convenience, we interchange	100	I(A)
and the second se		a.154	3-
	$L \int_{av}^{a^2} dt = \int_{a}^{a} e dr. \qquad \qquad$		1-
	Two in the second se	0 01 02 03 (0)	
	sine that we use s and s as the variables of integration, whereas I and j	Pagent R.S.A. The outings assertions for Example 6.2.	0 01 0J 03
All a second sec	ecome familie en con		Igens 6.7 A The current wavefurm for Example 8.2.
	$\mu(r) = \frac{1}{L} \int_{-\infty}^{\infty} r dr + H(r_0). \qquad \text{III.g}$	Note in Example 6.2 that i approaches a constant value of 2	A REAL PROPERTY OF THE PARTY OF
The inductor / - r equation >			wiored
	here if() is the current corresponding to i, and if(a) is the value of the here if() is the current corresponding to a storgration, namely, in. In many	a m industor.	
	here $I(t)$ is the current corresponding to t, and right in the value of the ductor current when we initiate the integration, namely, c_0 . In many solution current when we initiate the integration, namely, c_0 . In many	rower and Energy In the Inductor	
	CALICAL APPLICATION OF	as must and energy relationships for an industry can be a	krived
STATES AND	$g(r) = \frac{1}{L} \int_{0}^{r} r dr + d(0).$ (8.4)	dretty from the current and woltage relationships. If the current	
		inductor, the power is	the second second of the second secon
	Equations 6.1 and 6.5 both give the relationship between the voltage	p = 14.	(6.7)
	d current at the terrent, whereas Eq. 6.5 expresses the current ma	gemember that power is in wate, voltage is in volts, and curren	d is in
and the second se	ad current at the energy whereas Eq. in Section 2019, and a stage as a function of current, whereas Eq. in the reference direction for the the neutron of exchange. In both requirings the reference direction for the the neutron of the stage of the sector of the sector of the sector of the sector in the direction of the sector of the initial current is in the same direction of the sector o	amperen. If we express the inductor voltage as a function of the in amperent, Eq. 6.7 becomes	ductor
N	at is in the direction eleval sign. If the initial current is in the same direct	Carrier	
Ek .	in as the reservoirs described, if is a negative quantumy r. Aample ()	$p = L L^{\frac{d_i}{d_i}}$	(1.4) I Power in an Inductor
	prent is in the opposite of Eq. 6.5. setrates the application of Eq. 6.5.	4	
		we can also express the current in terms of the voltage:	
and the second from the former for	en the Voltage, at the Terminals of an Inductor	$P = v \left[\frac{1}{L} \int_{t_0}^{t} v dv + i(t_0) \right].$	(4.5)
Comple 6.2 Determining the Carrent, or		Equation 6.8 is useful in expressing the energy stored in the in	ductor
The softage pube applied to the 100 mH indu		Power is the time rate of expending energy, so	- Enclose
shown in Fig. 6.5 is 0 for t < 0 and is given by expression		$p = \frac{dw}{dt} = Lt\frac{dt}{dt}$	(6.10)
*(/) = 20x**** V	$i = \frac{1}{0.1} \int_{0}^{t} 20\pi e^{-2\theta t} d\tau + 0$		and the second s
	5 cm]!	Mahiphying both sides of Eq. 6.10 by a differential time gives the d stat relationship	dicrem-
for $t > 0$. Also assume $i = 0$ for $t \le 0$.	$= 200 \left[\frac{-e^{-2H}}{100} (10r + 1) \right]_{1}^{1}.$	de - Lia	(6.11)
 a) Sketch the voltage as a function of time. b) Find the inductor current as a function of time. 	$-5(1-10)e^{10}-e^{10})\Lambda, t \ge 0.$	But sides of Eq. 6.11 are integrated with the understanding that	A CONTRACT OF A CONTRACT.
 Sketch the current as a function of time. 	 c) Figure 6.7 shows the current as a function of time, 	gener for zero energy corresponds to zero current in the inductor	Thus we have been and the second seco
And the second second second second	r=0, r<0	f f	
The second s	Ha OU	$\int_0^\infty dx = L \int_0^\infty y dy.$	
Solution	r = 20r ^{-m} V, 1>6		
a) The voltage as a function of time is show Fig. 6.6.	n in Figure 6.5 A The cleant for Example 6.2.	$w = \frac{1}{2}L^2$	(8.32) 4 Energy in an Inductor
	C WINDOWSKI CONTRACTOR	and the second se	

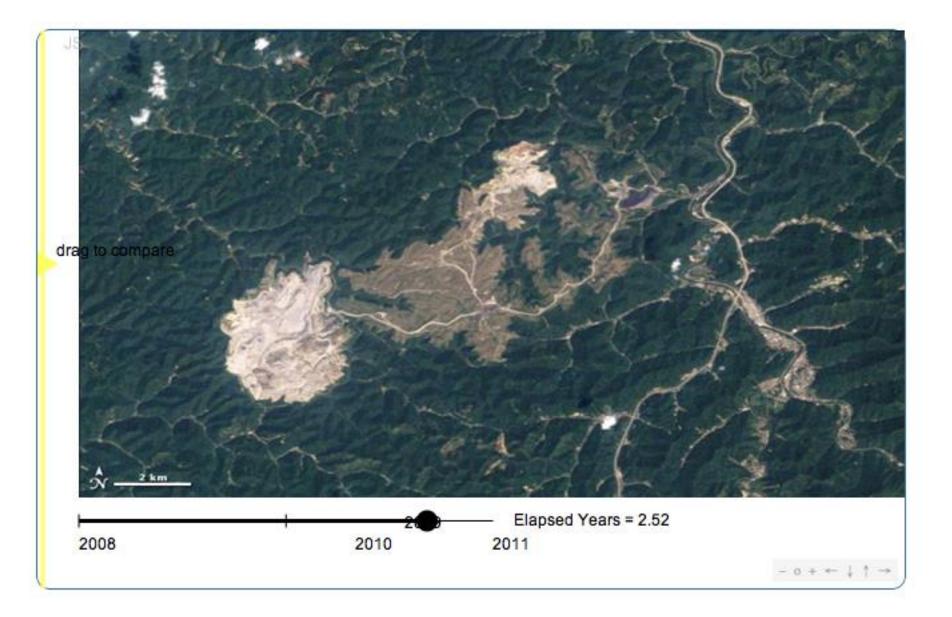
Circa 2010: Progress?

> 2010

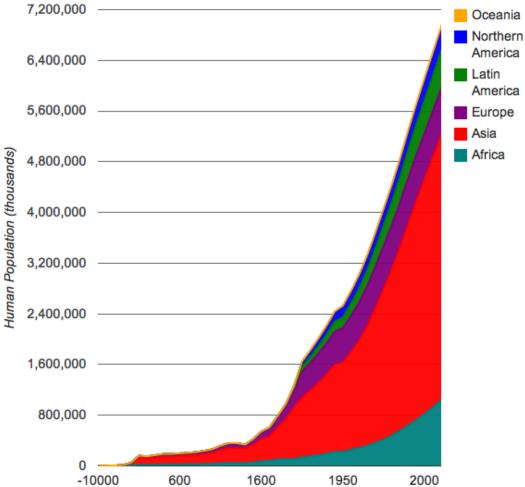








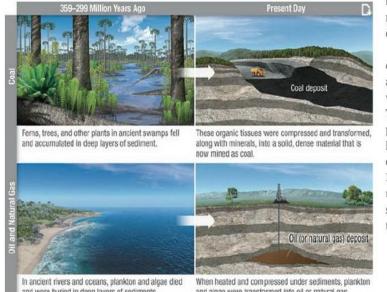




Human Population Growth through time by region

How are fossil fuels formed?

In periods over the past 500 million years, the planet was warm and covered with dense vegetation, large swamps, and extensive shallow seas. The warm and wet conditions were ideal for plants to grow on land and for algae and other small floating aquatic organisms called plankton to grow in swamps and oceans. During photosynthesis these organisms converted large amounts of carbon dioxide into organic tissues. After the plants and algae died, these carbon-rich tissues fell into sediments where conditions such as low oxygen availability prevented their breakdown.



AAQ Discussion | 24 | 4 new м

Aenean eu est. Etiam

imperdiet turpis. Praesent

Sla 🖉

heated

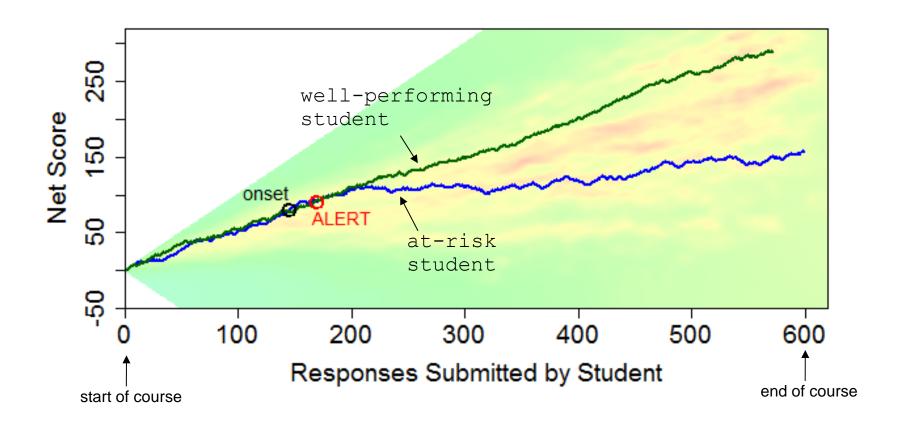
over mil

nec augue. Curabitur ligula transfor quam, rutrum id, tempor as fossil fuels are tempor sed, consequat ac, compou dui. Vestibulum accumsan carbon. became Curabitur ligula quam, rocks th rutrum id, tempor sed, conseguat ac, dui. deposits Vestibulum accumsan As continer ligula quam, rutrum id, are foun tempor sed, consequat ac, where n dui. Vestibulum accumsan There a peatland tempor sed, consequat ac, layers of dui. Vestibulum accumsan eventua Howeve Aenean eu est. Etiam nonrene imperdiet turpis. Praesent nec augue. Curabitur ligula slowly th quam, rutrum id, tempor sed, consequat ac, dui. timescal Vestibulum accumsan tempor sed, consequat ac, dui. Vestibulum accumsan

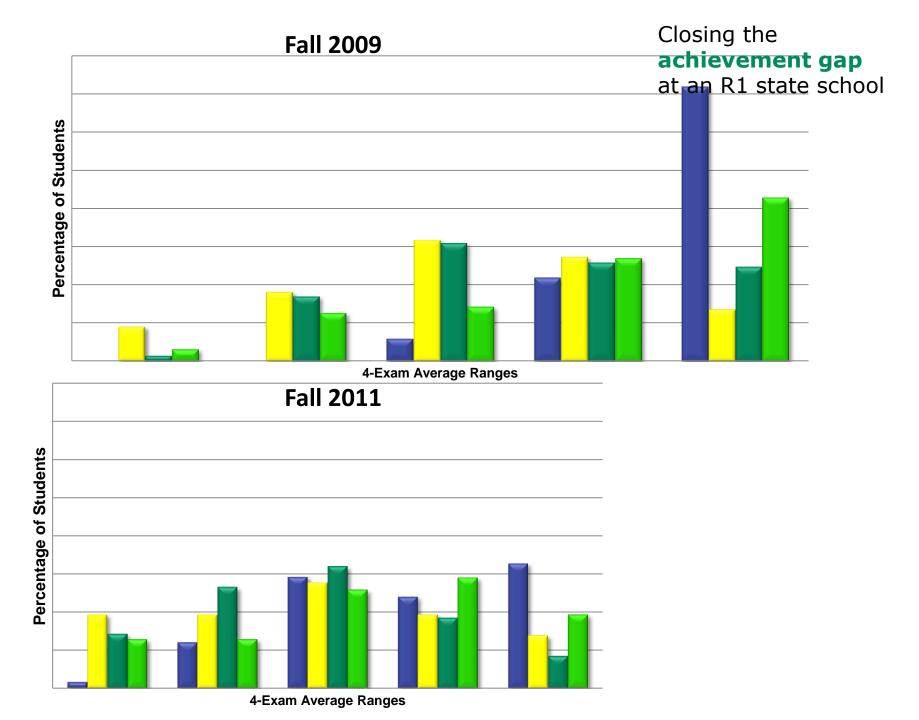
and were buried in deep layers of sediments.

and algae were transformed into oil or natural gas.

Predictive Analytics



We raise an alert when the fractal dimension of the student's response pattern hits 2



Customizable



Values and Environmental Economics

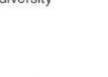


Evolution and Biodiversity

Communities

Populations

and



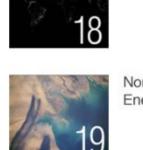


A. a martin and

Water Availability and Pollution

The Oceans

The Climate



Nonrenewable Energy

move to unassigned content

Renewable

Energy



Peer instruction: directed pair or small group discussion

• Team-based assessment: teams must work together

