

HISD NES Game Research Lessons vs. TEKS

Monday, September 27, 2010

Hughes/Hoge/Scoggins

Lesson Name	Lesson #	8th Grade	H.S.	8th Grade	H.S.	8th Grade		H.S.	8th Grade
		General	General	General	General	Biology			Chemistry
		Math	Math	Science	Science				
Basic Science		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;				
Electricity	BS-01	b.1.A,B,D;2.A,B,C	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;				112.20.b.5.A;7.A;8.C
Electric Generator	BS-02	4.A;5.A,B;10.A	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E				112.20.b.5.A;7.A;8.C
Transformers	BS-03	11.A,B,C;12.A,B,C	6.A,B,C,D,E,F,G;						112.20.b.5.A;7.A;8.C
Electric Power Transmission	BS-04	13.A,B;14.A,B,C	7.A,B;8.A,B,C;						112.20.b.5.A;7.A;8.C
Turbines operations	BS-05	15.A,B;16.A,B	9.A,D;10.A;11.B,C						112.20.b.5.A;7.A;8.C
Going Green - Getting off the Grid	BS-06		111.33.a.1,2,3,4,5,6						112.20.b.11.C,D
Electricity Usage - Demand	BS-07		b.1.A,B,C,D,E						
Transmission Loss	BS-08		3.A,B,C;11.A,B,C,D,E						112.20.b.8.C
Siting costs vs distance	BS-09		111.34.a.1,2,3,4,5,6						112.20.b.5.A;7.A;8.C
Energy Units & Conversions	BS-10		b.5.A,B,C,D						
Natural Gas/Oil		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;				
Importance of Natural Gas	NG-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;				
Transportation: Pipelines & Storage	NG-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E				
Utilization of NG	NG-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;		112.36.b.1;3;4;5;A,B,C;6.A,B,C				
Oil Shale - Tar Sands - Methyl Hydrates	NG-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;		c.1.c;				
Efficiency - Waste Heat/cogeneration	NG-05	15.A,B;16.A,B	9.A,D;10.A;11.B,C		2.B,C,D,E,F,G,H,I;				112.20.b.5.A;7.A;8.C
Drilling	NG-06		111.33.a.1,2,3,4,5,6		3.A,B,D,E	112.20.b.11.D			
Refining	NG-07		b.1.A,B,C,D,E						
Environmental Impacts	NG-08		3.A,B,C;11.A,B,C,D,E			112.20.b.11.C,D	112.34.12.F		
			111.34.a.1,2,3,4,5,6						
			b.5.A,B,C,D						
Wind		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;				
Importance of Wind Energy	WI-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;				
Wind Turbine Operations	WI-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E				112.20.b.5.A;7.A;8.C
Physics of blades - speed vs energy	WI-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;						
Environmental Impacts	WI-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;			112.20.b.11.C,D	112.34.12.F		
		15.A,B;16.A,B	9.A,D;10.A;11.B,C						
			111.33.a.1,2,3,4,5,6						
			b.1.A,B,C,D,E						
			3.A,B,C;11.A,B,C,D,E						
			111.34.a.1,2,3,4,5,6						
			b.5.A,B,C,D						
Nuclear		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;				
Importance of Nuclear Energy	NU-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;				112.20.b.5.A;7.A;8.C
Boiling Water Reactors	NU-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E				112.20.b.5.A;7.A;8.C
Pressurized Water Reactors	NU-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;						112.20.b.5.A;7.A;8.C
Fourth Gen Reactors	NU-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;						
Radioactive Waste Generation/Storage	NU-05	15.A,B;16.A,B	9.A,D;10.A;11.B,C						
Environmental Impacts	NU-07		111.33.a.1,2,3,4,5,6			112.20.b.11.C,D	112.34.12.F		
Fusion	NU-08		b.1.A,B,C,D,E						112.20.b.5.A;7.A;8.C
			3.A,B,C;11.A,B,C,D,E						
			111.34.a.1,2,3,4,5,6						
			b.5.A,B,C,D						

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		General	General	General	General	Biology		Chemistry
		Math	Math	Science	Science			
Solar		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;			
Importance of Solar Energy	SO-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;			112.20.b.5.A;7.A;8.C
Resources - Photovoltaic	SO-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E			112.20.b.5.A;7.A;8.C
Resources - Solar Thermal	SO-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;					
Efficiencies - Solar	SO-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;			112.20.b.11.C,D	112.34.12.F	
Environmental Impacts	SO-05	15.A,B;16.A,B	9.A,D;10.A;11.B,C				112.34.12.F	
			111.33.a.1,2,3,4,5,6					
			b.1.A,B,C,D,E					
			3.A,B,C;11.A,B,C,D,E					
			111.34.a.1,2,3,4,5,6					
			b.5.A,B,C,D					
Biomass		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.34.b.1,3,4,5;			
Importance of Biomass Energy	BI-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E,F,G,H;			112.20.b.5.A;7.A;8.C
Biomass Resources	BI-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,E			
Efficiency - Biomass Options	BI-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;		112.39.b.1,3,4,5;			
Environmental Impacts	BI-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;		c.2.B,C,D,E;	112.20.b.11.C,D	112.34.12.F	
		15.A,B;16.A,B	9.A,D;10.A;11.B,C		3.A,B,D,E			
			111.33.a.1,2,3,4,5,6					
			b.1.A,B,C,D,E					
			3.A,B,C;11.A,B,C,D,E					
			111.34.a.1,2,3,4,5,6					
			b.5.A,B,C,D					
Geothermal		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.36.b.1;3;4;5;A,B,C;6.A,B,C			
Importance of Geothermal Energy	GE-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.1.c;			112.20.b.5.A;7.A;8.C
Geothermal Resources	GE-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	2.B,C,D,E,F,G,H,I;			
Efficiencies - Geothermal	GE-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;		3.A,B,D,E			
Environmental Impacts		13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;			112.34.12.F	112.34.12.F	
			9.A,D;10.A;11.B,C					
			111.33.a.1,2,3,4,5,6					
			b.1.A,B,C,D,E					
			3.A,B,C;11.A,B,C,D,E					
			111.34.a.1,2,3,4,5,6					
			b.5.A,B,C,D					
Coal		111.24.a.1,2,3	111.32.a.1,2,3,4,5,6	112.20.a.2;3;4.A.i,ii,iii;B;C;D;E	112.39.b.1,3,4,5;			
Importance of Coal Energy	CO-01	b.1.A,B,D;2.A,B,C,D;	b.1.A,B,C,D,E	b.2.A;C;D;E;	c.2.B,C,D,E;			
Resources - Mining Coal	CO-02	4.A;5.A,B;10.A;	2.C,D;3.A,B;4.A,B;5.A	3.A,B,D;5	3.A,B,D,E			
Transportation of Coal	CO-03	11.A,B,C;12.A,B,C;	6.A,B,C,D,E,F,G;		112.36.b.1;3;4;5;A,B,C;6.A,B,C			
Efficiencies - Coal Gasification	CO-04	13.A,B;14.A,B,C,D;	7.A,B;8.A,B,C;		c.1.c;			112.34.9.B;12.E
Environmental Impacts - Clean Coal	CO-05	15.A,B;16.A,B	9.A,D;10.A;11.B,C		2.B,C,D,E,F,G,H,I;		112.34.12.F	
			111.33.a.1,2,3,4,5,6		3.A,B,D,E			
			b.1.A,B,C,D,E					
			3.A,B,C;11.A,B,C,D,E					
			111.34.a.1,2,3,4,5,6					
			b.5.A,B,C,D					
Business Basics								
Profit and Loss	BB-01							
Price Setting	BB-02							

H.S.	8th Grade	H.S.	8th Grade	H.S.	8th Grade	H.S.	8th Grade
Earth Science		Int. Physics/Chemistry		Physics		Environmental	
		112.36.14.C;15.D		112.38.4.G;5.A,B,C,H 112.38.4.G;5.A,B,C,H 112.38.4.G;5.A,B,C,H 112.38.4.G;5.C,F,G 112.38.4.G;5.C,F,G 112.38.4.G;5.C,F,G,I 112.38.4.G;5.G,H,I,7.D,F 112.38.4.G;5.G,H,I,7.D,F 112.38.4.G;5.G,H,I,7.D,F 112.38.5.E,I;7.F		112.39.5.G 112.39.5.C,D,E,G 112.39.5.C,D,E,G 112.39.5.C,D,E,G 112.39.5.C,D,E,G 112.38.5.C,D,E,F;6.A,B,C;7.F 112.38.4.A;5.E,F;6.C 112.38.4.A;5.E,F;6.C 112.38.4.A;5.E,F;6.C 112.38.6.D,G,E	
	112.20.b.9.A,B 112.20.b.9.A,B 112.20.b.9.A,B 112.20.b.10.C	112.36.12.B,C,D,E 112.36.12.D,E 112.36.12.D,E 112.36.12.B,C,D,E 112.36.12.B,C,D,E 112.36.12.B,C,D,E 112.36.12.B,C,D,E			112.20.6.A,B,C 112.20.b.5.E,F		
		112.36.12.C 112.36.12.B,C,D,E		112.38.5.A,B,C,F,H 112.38.5.A,B,C,F,H	112.20.6.A,B,C 112.20.6.A,B,C	112.39.4.B,C,D 112.39.4.B,C,D	
		112.36.12.C,D,E 112.36.12.C,D,E 112.36.12.B,C,D,E		112.38.7.E 112.38.7.E 112.38.7.E 112.38.7.E 112.38.7.E 112.38.7.E	112.20.6.A,B,C 112.20.6.A,B,C 112.20.6.A,B,C	112.39.5.H;6.E,F,G;8.C,D 112.39.5.H;6.E,F,G;8.C,D 112.39.5.H;6.E,F,G;8.C,D 112.39.5.H;6.E,F,G;8.C,D 112.39.5.H;6.E,F,G;8.C,D 112.39.5.H;6.E,F,G;8.C,D	

