

Wisconsin K-12 Energy Education Program (KEEP)

Doable Renewables Activity Guide Standards Correlations - Common Core & Next Generation Science Standards

Activity	CC ELA	CC Math		NGSS			
		Practice Std.	Content Std.	Standard	Practice (SEP)	Disciplinary Core Ideas (DCI)	Crosscutting Concepts (CCC)
A Piece of the Pie 9-12 (5-8)	RST.9-10.1, RST.9-10.2, RST.9-10.7, SL.9-10.1, WHST.9-10.7	MP4, MP5	4.MD.6, N-Q.1, S-IC.6		Analyzing and Interpreting Data		
Catch That Wind 5-8 (9-12)							
Corn in Your Car 9-12 (5-8)	RI.9-12.1, RST.9-12.3, RST.9-12.7, SL.9-10.1, W.9-12.2, W.9-12.7, W.9-12.8, WHST.9-12.10	MP1, MP6	N-Q.1	MS-PS1-2, MS-PS1-3, MS-PS1-4, MS-PS1-5, MS-ETS1-1, MS-ETS1-2, MS-ETS1-3	Planning and Carrying Out Investigations, Analyzing and Interpreting Data, Constructing Explanations and Designing Solutions	PS1B: Chemical Reactions, PS2B: Types of Interactions, PS3.A: Definitions of Energy	Cause and Effect
Don't Waste Waste 5-8 (K-4)	RST.6-8.7	MP1, MP5, MP6, MP7	2.MD, 3.MD2, 3.NBT2, 3.OA7, 6.RP3c	5-LS2-1, MS-LS1-6, MS-LS2-3	Constructing Explanations and Designing Solutions, Developing and using models	LS1.C: Organization for Matter and Energy Flow in Organisms, LS2.B: Cycle of Matter and Energy Transfer in Ecosystems	Energy and Matter
Fuel Cell Futures (5-8) 9-12	L.7.3, W.7.3, W.7.4, W.7.5, W.7.9			MS-ETS1-1, MS-ETS1-2	Asking Questions and Defining Problems, Engaging in Argument from Evidence	ETS1.A: Defining and Delimiting Engineering Problems, ETS1.B: Developing Possible Solutions	Influence of Science, Engineering, and Technology on Society and the Natural World
Geothermal Gazette 5-8 (9-12)	L.8.3, L.8.6, RI.8.3, RI.8.8, RL.8.4, SL.5-8.1, W.8.2, W.8.7	MP1, MP2	6.SP.5, S.ID.1, S.IC.6	MS-ESS3-1	Constructing Explanations and Designing Solutions	ESS3.A: Natural Resources	Cause and Effect



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Green Home Design 9-12	RI.9-12.4, WHST.9-12.1, WHST.9-12.7, WHST.9-12.9	MP1, MP3	7.G.1, 7.G.6, N-Q.1	HS-ESS3-4, HS-ETS1-4	Constructing Explanations and Designing Solutions	ESS3.C: Human Impacts on Earth Systems	Stability and Change
Insulation Creations 5-8	RST.6-8.3, SL.5-8.1b, SL.5-8.1d, SL.5-8.4, SL.5-8.6, WHST.6-8.7	MP4, MP6	6.SP.5	MS-PS3-3, MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4	Constructing Explanations and Designing Solutions	PS3.A: Definitions of Energy, PS3.B: Conservation of Energy and Energy Transfer	Energy and Matter
Let the Sun Shine In 9-12	RST.9-12.3, RST.9-10.7, SL.9-10.1, W.9-12.7	MP1, MP5, MP6	5.MD.1, 7.G.6, 7.NS.3, N-Q.1, G-MG.3	HS-ETS1-2, HS-ESS3-2	Constructing Explanations and Designing Solutions, Engaging in Argument from Evidence	ESS3.A: Natural Resources, ETS1.C: Optimizing the Design Solution	Influence of Science, Engineering, and Technology on Society and the Natural World
Over the Years 5-8 (9-12)	L.6-8.6, SL.6-8.3, SL.6-8.4, SL.6.1, WHST.6-8.4						
Placement Matters 9-12 (5-8)	RST.9-12.1, RST.9-12.3, RST.9-12.4, RST.9-12.8, RST.9-12.9, WHST.9-12.7	MP4, MP5, MP6	4.MD.C.6, S-ID.6a, F-TF.5	HS-ETS1-2	Constructing Explanations and Designing Solutions	ETS1.C: Optimizing the Design Solution	

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Renewable Candy Resources K-4 (5-8)	L.3-5.3, L.K-5.4, L.4-5.6, RI.K.4, RI.2-4.3, RI.2-5.4, RI.3.1, RI.4.7, RI.5.1, RL.K-1.4, RL.3-4.4, RL.4-5.1, RL.4-5.7, SL.K-2.1, SL.K-1.2, SL.K-5.3, SL.K-3.6, SL.3-5.2, SL.3-5.4, W.K-5.2, W.K-2.8		K.CC.1, K.CC.4a, K.CC.4b, K.CC.5, K.CC.6, K.OA.2, K.OA.3, K.OA.4, 1.NBT.1, 3.NF.1, 3.NF.3a, 4.NF.2	K-ESS3-3, 4-ESS3-1, 5-ESS3-1	Obtaining, Evaluating, and Communicating Information	ESS3.A: Natural Resources, ESS3.C: Human Impacts on Earth Systems,	Connections to Nature of Science, Cause and Effect, Systems and System Models
Renewable World 9-12	SL.9-12.4, W.9-12.2			MS-ESS3-4, MS-ESS3-5	Asking Questions and Defining Problems	ESS3.C: Human Impacts on Earth Systems, ESS3.D: Global Climate Change	Stability and Change
Sitting for Solar 5-8	W.6-8.2	MP5, MP6	4MD5a, 4MD5b, 4MD6, 4MD7	5-ESS1-2, MS-ESS1-1	Analyzing and Interpreting Data, Developing and Using Models	ESS1.A: The Universe and Its Stars, ESS1.B: Earth and the Solar System	Patterns
Solar Explorations K-4 (5-8)	L.K-5.4, L.3-5.3, L.4-5.6, RI.K-5.4, RI.3-4.3, RI.4.7, RI.5.1, RI.5.8, RL.K.4, RL.K.10, RL.1.1, RL.2-4.4, RL.3.1, RL.4.1, RL.5.1, SL.K.2, SL.K-1.6, W.K-1.5, W.2-5.7		1.MD.3, 2.MD.7	K-PS3-1, 4-PS3-2, 4-ESS3-1, MS-PS3-3, MS-PS3-4, MS-PS4-2	Planning and Carrying Out Investigations, Obtaining, Evaluating, and Communicating	ESS3.A: Natural Resources, PS3.A: Definitions of Energy, PS3.B: Conservation of Energy and Energy Transfer	Cause and Effect, Connections to Engineering, Technology, and Applications of Science, Energy and Matter

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Solar Transmissions 5-8 (6-8)	SL.6-8.1, W.6.7	MP1, MP3, MP5		MS-PS3-3, MS-ETS1-2	Constructing Explanations and Designing Solutions, Engaging in Argument from Evidence	ETS1.B: Developing Possible Solutions, PS3.A: Definitions of Energy	Energy and Matter, Influence of Science, Engineering, and Technology on Society and the Natural World
Sustainable Communities 9-12 (5-8)	RST.9-10.7, SL.9-10.1, SL.9-10.4	MP2, MP3	7.G.A.1	HS-ETS1-2, HS-ESS3-2, HS-ESS3-4	Constructing Explanations and Designing Solutions, Engaging in Argument from Evidence	ESS3.A: Natural Resources, ESS3.C: Human Impacts on Earth Systems, ETS1.C: Optimizing the Design Solution	Influence of Science, Engineering, and Technology on Society and the Natural World, Stability and Change
What Renewable Energy Does for Me K-4 (5-8)	L.K-5.4, L.3-5.3, L.4-5.6, RI.K-5.4, RI.2-4.3, RI.3.1, RI.3.5, RI.3-4.7, RI.5.1, RL.K.4, RL.3-4.1, RL.4-5.1, SL.K-2.1, SL.K-1.2, SL.K-5.3, SL.K-5.5, SL.3-5.4, W.K-1.5, W.2-5.7			K-PS3-1, 4-ESS3-1	Obtaining, Evaluating, and Communicating, Planning and Carrying Out Investigations	ESS3.A: Natural Resources, PS3.B: Conservation of Energy and Energy Transfer	Cause and Effect, Connections to Engineering, Technology, and Applications of Science, Influence of Science, Engineering and Technology on Society and the Natural World
Where the Wind Blows 5-8	SL.6-8.1	MP5, MP6	4.MD.5a, 4.MD.5b, 4.MD.6, 4.MD.7	MS-ESS2-6	Developing and Using Models	ESS2.D: Weather and Climate	Systems and System Models
Working Water 5-8	SL.6-8.1, SL.6.4			4-ESS3-1, MS-PS3-2, MS-PS3-5, MS-ESS2-4, MS-ESS3-1, MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4	Developing and Using Models , Obtaining, evaluating, and communicating information	ESS3.A: Natural Resources, PS3.A: Definitions of Energy, PS3.C: Relationship Between Energy and Forces	Cause and Effect