








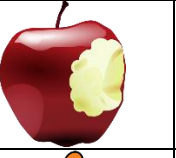







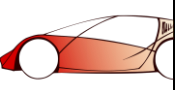


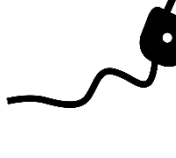


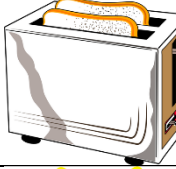









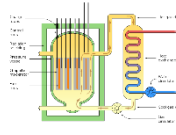






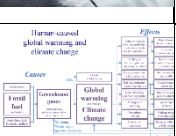






DU 6. IMAGES					
CAPTURA	REFERENCIA	NOME	AUTORÍA	REPOSITORIO/URL	LICENZA
	Figure 1.20	Atom Sym	Orion1961	https://commons.wikimedia.org/wiki/File:Atom_sym.png	 CC BY-SA 4.0
	Figure 6.1	6energybeach	Wyncliffe	https://stocksnap.io/photo/waves-crashing-OWM4EF0A8G	 CC0 1.0 Public Domain Dedication
	Figure 6.2	6work	すじにくシチュー	https://commons.wikimedia.org/wiki/File:Work_(physics).svg	 CC0 1.0 Public Domain Dedication
	Figure 6.3	7conduction	MikeRun	https://commons.wikimedia.org/wiki/File:Heat-conduction.svg	 CC BY-SA 4.0
	Figure 6.4	6rubberband	Sander van der Wel	https://commons.wikimedia.org/wiki/File:(356-365)_Snapback_to_reality_(6283432546).jpg	 CC BY-SA 2.0
	Figure 6.5	6swimming	Pixabay	https://www.stockvault.net/photo/204241/swimming-championship	 CC0 1.0 Public Domain Dedication
	Figure 6.6	6statesofmatter	Yelod - Wikipedia Commons * ילוד - Wikipedia (En) * ילוד - ויקיפדיה העברית	https://commons.wikimedia.org/wiki/File:States_of_matter_En.svg	 CC BY-SA 3.0
	Figure 6.7	6hotkettle		https://pxhere.com/en/photo/1101766	 CC0 Public Domain Dedication
	Figure 6.8	6Xray	phucnguyen247	https://pixabay.com/es/photos/x-ray-esquel%C3%A9tico-5067225/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento









	Figure 6.9	6gasfire	phucnguyen247	https://pxhere.com/en/photo/768492	 CC0 Public Domain Dedication
	Figure 6.10	6bulb		https://pxhere.com/en/photo/537392	 CC0 Public Domain Dedication
	Figure 6.11	6sun	Josethestoryteller	https://pixabay.com/es/illustrations/sol-estrella-luz-brillar-brillante-2515252/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento
	Figure 6.12	6energyconversionbulb	PennState. College of Earth and Mineral Sciences	https://www.e-education.psu.edu/egee102/node/1937	 CC BY-NC-SA 4.0
	Figure 6.13	6energyflow	PennState. College of Earth and Mineral Sciences	https://www.e-education.psu.edu/egee102/node/1937	 CC BY-NC-SA 4.0
	Figure 6.14	6apple	Openclipart	https://publicdomainvectors.org/es/vectoriales-gratuitas/Manzana-con-mordisco-vector-de-imagen/29730.html	 CC0 Public Domain Dedication
	Figure 6.14	6ridingabike	OpenClipart	https://freessvg.org/human-figure-riding-a-bike-vector-image	 CC0 Public Domain Dedication
	Figure 6.14	6plant	Pixabay	https://pixabay.com/es/vectors/maceta-creciente-hoja-planta-148267/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento
	Figure 6.14	6battery	OpenClipart	https://freessvg.org/nicubunu-battery	 CC0 Public Domain Dedication
	Figure 6.14	6gasolin	OpenClipart-Vectors /	https://pixabay.com/es/vectors/pistola-bomba-combustible-coche-160119/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento
	Figure 6.14	8redcar		https://pixabay.com/es/vectors/rojo-deportes-coche-transporte-33358/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento

	Figure 6.14	6lantern	Firefox OS	https://commons.wikimedia.org/wiki/File:Fxemoji_u1F526.svg	 CC BY 4.0
	Figure 6.14	6plug	malupeca	https://pixabay.com/es/vectors/enchufe-electricidad-poder-280947/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento
	Figure 6.14	6lamp	Bob Williams	https://www.publicdomainpictures.net/es/view-image.php?image=171520&picture=lampara-de-escritorio	 CC0 Public Domain Dedication
	Figure 6.14	6toast	Openclipart	https://publicdomainvectors.org/es/vectoriales-gratuitas/Doble-tostado/68704.html	 CC0 Public Domain Dedication
	Figure 6.14	6sun	OpenClipart	https://freesvg.org/1433924438	 CC0 Public Domain Dedication
	Figure 6.14	6bulbclipart	OpenClipart	https://freesvg.org/light-bulb-vector-image	 CC0 Public Domain Dedication
	Figure 6.15	6pumpinggas	futureatlas.com	https://www.flickr.com/photos/87913776@N00/460375914	 CC BY 2.0
	Figure 6.16	6coalpowerplant	Petr Kratochvil	https://www.publicdomainpictures.net/es/view-image.php?image=1704&picture=estacion-de-potencia	 CC0 Public Domain Dedication
	Figure 6.17	6nuclearpowerplant	drawn by Emoscopes and converted to SVG by User:Sakurambo	https://commons.wikimedia.org/wiki/File:Magnox_reactor_schematic.svg	 CC BY-SA 3.0
	Figure 6.18	6solarpanels		https://pxhere.com/en/photo/812598	 CC0 Public Domain Dedication

DU 6 CREDITS











	Figure 6.19	6dam	ProfessorX	https://commons.wikimedia.org/wiki/File:Aumatalsperr-e-Damm.jpg	 CC BY-SA 3.0
	Figure 6.20	6windmill	George Hodan	https://www.publicdomainpictures.net/en/view-image.php?image=79388&picture=old-stone-windmill	 CC0 Public Domain Dedication
	Figure 6.21	6biomass		https://www.rawpixel.com/image/431808/free-photo-image-texture-logs-art-public-domain	 CC0 Public Domain Dedication
	Figure 6.22	6geothermal	Rxn111130	https://commons.wikimedia.org/wiki/File:Geothermal-energy.png	 CC BY-SA 4.0
	Figure 6.23	6globalenergyconsumption	Efbrazil	https://commons.wikimedia.org/wiki/File:Global_Energy_Consumption.svg	 CC BY-SA 4.0
	Figure 6.24	6greenhouse effect	Beyond Coal & Gas Image Greenhouse effect infographic	https://www.flickr.com/photos/beyondcoalandgas/9946723085/in/photostream/	 CC BY-NC-ND 2.0
	Figure 6.25	6extremeweather		https://pxhere.com/en/photo/1355438	 CC0 Public Domain Dedication
	Figure 6.26	6globalwarmingchart	RCraig09	https://commons.wikimedia.org/wiki/File:20200101_Global_warming_-_climate_change_-_causes_effects_feedback.png	 CC BY-SA 4.0
	Figure 6.27	6energytips	Energy.gov 10 Energy Saving Tips for Spring	https://www.energy.gov/energysaver/articles/10-energy-saving-tips-spring	 CC0 Public Domain Dedication
	Figure 6.28	6footprint		https://pxhere.com/en/photo/554283	 CC0 Public Domain Dedication
	Figure 6.29	6energyfood	Attribution: Photo by kiliweb per Open Food Facts	https://world.openfoodfacts.org/cgi/product_image.pl?code=5030883000090&id=nutrition_en	 CC BY-SA 3.0
	Figure 6.30	6climatecrisis	CristianIS / 19 images	https://pixabay.com/es/illustrations/la-hora-de-la-tierra-cambio-clim%C3%A1tico-4776711/	Pixabay License Gratis para usos comerciales No es necesario reconocimiento

DU 6 CREDITS

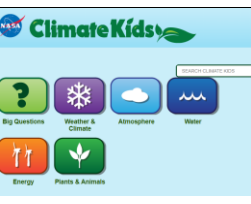

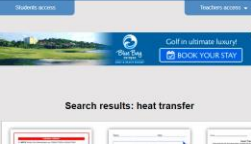

DU 6. VIDEO					
	Video 6.1	<u>6videoingf orclimate</u>	Cindy Nielsen-Morgan	https://www.youtube.com/watch?v=dxVcUsUa5Ns	Creative Commons Attribution licence (reuse allowed)
	Video 6.2	<u>6videoener gy concepts</u>	DART.ENVS.0 1.X	https://www.youtube.com/watch?v=fug5uU0nAP4	Creative Commons Attribution licence (reuse allowed)
	Video 6.3	<u>6videoform sofenergy</u>	Study Animated	https://www.youtube.com/watch?v=1C-1ivtsiws	Creative Commons Attribution licence (reuse allowed)
	Video 6.4	<u>6videotrans formatione nergy</u>	Mohamed Najmee	https://www.youtube.com/watch?v=itVK5-ofZ58	Creative Commons Attribution licence (reuse allowed)
	Video 6.5	<u>6videononr enewablees</u>	Maiet Sangco	https://www.youtube.com/watch?v=m1SISKz4j5o	Creative Commons Attribution licence (reuse allowed)
	<u>Video 6.6</u>	<u>6videorene wablees</u>	The Pro Engineer	https://www.youtube.com/watch?v=-QfN4GxbQ3o	Creative Commons Attribution licence (reuse allowed)
		<u>6videohowt osaveenerg y</u>	Vinesh Sen	https://www.youtube.com/watch?v=Q6tyC5hBtgE	Creative Commons Attribution licence (reuse allowed)
		<u>6videocarb onfootprint</u>	simpleshw	https://www.youtube.com/watch?v=8q7_aV8eLUE&t=26s	Creative Commons Attribution licence (reuse allowed)

DU 6 CREDITS


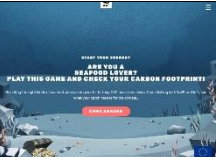
DU 6. SIMULACIONES

	6phet_simulation s Energy forms and changes	by PhET Interactive Simulations, University of Colorado Boulder/	http://localhost:8671/TempArdora/inMenus28062022185113/resources/menuFiles/embed105.htm	 CC BY 4.0
	6phet_simulation s The greenhouse effect	by PhET Interactive Simulations, University of Colorado Boulder/	http://localhost:8671/TempArdora/inMenus28062022185113/resources/menuFiles/embed106.htm	 CC BY 4.0
	6sim ruler of the world simulation	UCAR. CENTER FOR SCIENCE EDUCATION	https://scied.ucar.edu/interactive/ruler-world	 CC BY 4.0
	6sim Climate solutions simulator	En-ROADS Climate Solutions Simulator	https://en-roads.climateinteractive.org/scenario.html?v=22.5.1	 CC BY 4.0
	6sim conduction in solids	OpenSciEd Middle School Curriculum series.	https://htmlsimulations.s3.us-west-1.amazonaws.com/Conduction-in-Solids-Reduced.html	 CC BY 4.0

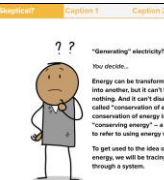



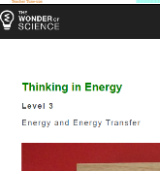





DU 6. WEB RESOURCES / ACTIVITIES

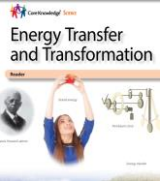



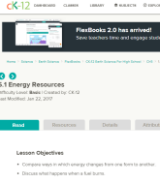






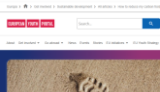
	6 Nasa Climate Kids	NASA Climate kids	https://climatekids.nasa.gov/menu/energy/
	6 Enviromental lesson plans	ESLFLOW. COM	https://eslflow.com/environmentlessonplans.html
	6 Liveworksheets energy	LIVEWORKSHEETS	https://www.liveworksheets.com/search.asp?content=energy
	6 teaching about climate and energy	CLEAN Committed to Climate and Energy Education	https://cleanet.org/index.html

DU 6 CREDITS

 Instructional Materials Profess OpenSciEd Approach	6 OpenSciEd	OpenSciEd	https://www.openscienced.org/instructional-materials/6-2-thermal-energy/
	6 carbon footprint calculator	WWF.ORG.UK	https://footprint.wwf.org.uk/#/
	6 carbon footprint game	WWF.ORG	https://www.wwf-finprint.org/en

DU 6. TEXTBOOKS / LESSONS/ARTICLES

	6 Activity. Science sandbox Energy transformation	SERP SciGen Unit E3 • Delivering Power to the People	https://serpmedia.org/scigen/e3.3a.html	 CC BY-NC-SA
	6 lesson plan energy transformations2	by Science Sandbox, a Simons Foundation initiative	https://serpmedia.org/scigen/e3.3.html	 CC BY-NC-SA 4.0
	6 Energy and energy transfer	THE WONDER OF SCIENCE Thinking in Energy Level 3 Energy and Energy Transfer	https://thewonderofscience.com/mlccc53	 CC BY 4.0
	6 sources of energy debate	National Energy Education Development (NEED)	https://www.oercommons.org/courses/great-energy-debate	 CC BY
	6 text energy choices	CLEAN Committed to Climate and Energy Education	https://www.oercommons.org/courses/energy-choices-and-climate-change/view	 CC BY-NC-SA 3.0

	6textbook energy transfer and transformation	This work is based on an original work of the Core Knowledge® Foundation	https://www.coreknowledge.org/wp-content/uploads/2019/09/CKSci_G4Energy_SR.pdf	 CC BY-NC-SA 4.0
	6text tenergy conversion devices	PennState. College of Earth and Mineral Sciences	https://www.e-education.psu.edu/egge102/node/1937	 CC BY-NC-SA 4.0
	6lesson energy resources	 LICENSED UNDER  © CK-12 Foundation • Visit us at ck12.org	https://www.ck12.org/book/ck-12-earth-science-for-high-school/section/5.1/	© CK-12 Foundation 2020
	6text energy sources	OSU.EDU Beyond weather and the water cycle	https://beyondweather.ehe.osu.edu/issue/the-sun-and-earths-climate/the-sun-earths-primary-energy-source	 CC BY-SA 3.0
	6text hows scientists know	Mark Maslin Professor of Climatology, UCL The conversation	https://theconversation.com/explainer-how-scientists-know-climate-change-is-happening-51421	 CC BY-ND 4.0
	6text How to reduce my carbon footprint?	European Union European Youth Portal	https://europa.eu/youth/get-involved/sustainable-development/how-reduce-my-carbon-footprint_en	© European Union, 1995-2022 Reproduction is authorised, provided the source is acknowledged, save where otherwise stated.