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| **LRA Matrix 5: Fluid Earth Systems and Human Activities****Grade 7 Science** |
| **GLCE** | **Information/Knowledge** | **Know-How** |
| **Must Do** | **Can Do***(choose 1)* | **Assessment** |
| **Expectation****Code** | **Textbook****I***read section* | **Guided** **Reading** | **BrainPop** | **Videos****Podcasts***web resources* | **Science Literacy Blog*****People of Sparks*** | **Real Life** **Applications** | **Discover Activity** | **Section Assessment** | **Review and Reinforce** | **Standardized Test Prep** |
| **5-1** | S.IA.07.15 E.FE.07.11-12 | I 1.3 | GR1.3 | *Earth’s Atmosphere* | ***City of Ember*** Feature Film | Ch. 1-7p.1-89 | Bottle Biology: Atmospheric Pollution | DA1.3*Is Air There?*p. 16 | SA1.3p. 21 | RR1.3 | Study Island:AtmosphereE.FE.M.1 |
| **5-2** | E.ES.07.11-13Solar Energy | I 2.1I 2.2 | GR2.1GR2.2 | *Solar Energy* | Weather: The Chaos Which Surrounds us | Ch.8-13p. 90-160 | Build a Lightbulb | DA2.1*Does a Plastic Bag Trap Heat?*p.36 | SA2.1p.391-3 all | RR2.1RR2.2 | Study Island:Solar EnergyE.ES.M.1 |
| **5-3** | E.ES.07.81-82 Atmosphere and Water Cycle | I 2.4 | GR2.4 | *Groundwater* | Natural Phenomena: Lakes, Rivers, and Other Water Sources | Ch. 14-21p. 161-239 | Observing How Clouds Form | DA2.4*How Does Fog Form?*p. 54 | SA2.4p. 601-3 all | RR2.4 | Study Island:Water CycleE.ES.M.8 |
| **5-4** | E.ES.07.71-74Weather and Climate | I 3.1I 3.3 | GR3.1GR3.3 | *Weather**Thunderstorms* | Understanding Weather | Ch. 22-29p. 240-338 |  Skills Lab:Reading a Weather Mapp. 99 | DA3.1*How Do Fluids of Different Densities Behave?**p. 72* | SA3.1p. 791-3 all | RR3.1RR3.3 | Weather Maps:Analyze and Create  |
| **5-5** | S.IP.07.11-16S.RS.07.15-19 | City Planning and Construction | Expert Groups | Food Stores and Production | Shelter | Energy | Water | Study Island:Matrix 5 Summative Assessment |