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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. 1-7  p.1-89 | | Bottle Biology: Atmospheric Pollution | | DA1.3  *Is Air There?*  p. 16 | | SA1.3  p. 21 | | RR1.3 | Study Island:  Atmosphere  E.FE.M.1 |
| **5-2** | E.ES.07.11-13  Solar Energy | I 2.1  I 2.2 | GR2.1  GR2.2 | *Solar Energy* | Weather: The Chaos Which Surrounds us | Ch.8-13  p. 90-160 | | Build a Lightbulb | | DA2.1  *Does a Plastic Bag Trap Heat?*  p.36 | | SA2.1  p.39  1-3 all | | RR2.1  RR2.2 | Study Island:  Solar Energy  E.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. 14-21  p. 161-239 | | Observing How Clouds Form | | DA2.4  *How Does Fog Form?*  p. 54 | | SA2.4  p. 60  1-3 all | | RR2.4 | Study Island:  Water Cycle  E.ES.M.8 |
| **5-4** | E.ES.07.71-74  Weather and Climate | I 3.1  I 3.3 | GR3.1  GR3.3 | *Weather*  *Thunderstorms* | Understanding Weather | Ch. 22-29  p. 240-338 | | Skills Lab:  Reading a Weather Map  p. 99 | | DA3.1  *How Do Fluids of Different Densities Behave?*  *p. 72* | | SA3.1  p. 79  1-3 all | | RR3.1  RR3.3 | Weather Maps:  Analyze and Create |
| **5-5** | S.IP.07.11-16  S.RS.07.15-19 | City Planning and Construction | | | | Expert Groups | Food Stores and Production | | Shelter | | Energy | | Water | | Study Island:  Matrix 5 Summative Assessment |