Name: Date: Class:

Environmental Justice StoryMap #5: EV Battery Impacts

Instructions: Complete the following questions as you explore the <u>Environmental Justice StoryMap #5</u> EV Battery Impacts Transportation & Environment

StoryMap #5 Link: https://storymaps.arcgis.com/stories/dfbc9560b4cd454db0fdaf56564b46c0

Think About It: Watch the <u>video</u> and think about what you observe:

- 1. What are the benefits and challenges of EV batteries?
- 2. What are environmental justice issues are related to EV batteries?
- 3. What solutions exist for making EV batteries more environment-friendly?

Check for Understanding #1:

- 4. What is the most common type of battery used to power electric vehicles?
- 5. Which metal is used in the cathode of this type of EV battery that enables it to be rechargeable?

Check for Understanding #2:

- 6. Which product uses the most lithium, and which countries produce the most lithium?
- 7. Describe the impacts of mining lithium for batteries.









14. What ideas do you have to bridge these differences regarding lithium mining in the U.S.?

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Talk About It & Engineering Connections: 15. How do lithium-ion EV batteries help us cre does this affect environmental justice-relate		transportation? How
16. Describe the challenges of lithium-ion EV b battery end-of-life concerns. How does this		
17. What ideas do you have for the next genera sustainability and less environmental impac role can environmental justice play in new E	t than current lithium-ion E	V batteries? What



