## 4.1 Organizing the Elements Honors Integrated Science Video Lesson

Name:	Date:	Per
Watch the Video: "Mendeleev and the Periodic Table"		
Mendeleev and the Periodic Table   Properties of Ma	• • • • • • • • • • • • • • • • • • • •	
questions below in complete sentences, using the infor	mation from the video for	support.
1. How did scientists initially organize the elements before electrons?	ore the concept of proton	s, neutrons, and
2. What were some of the patterns observed among the established?	e known elements before	the periodic table was
<ol><li>Explain the concept of triads and provide an example</li></ol>	e of one such triad.	
4. What was Newlands' contribution to the organization theory?	of elements and what fla	aw did he encounter in his

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5. How did Mendeleev address the flaws in Newlands' octa	ves and create a mor	e plausible arrangement
of elements?		
6. Describe how Mendeleev's prediction of gallium's proper	ties marked a signific	ant advancement in the
development of the periodic table.		
7. What were some of the challenges Mendeleev faced with	n his periodic table, a	nd how were they
eventually resolved in the modern version?		