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structure of a  
material will depend  
on how it is  
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Thus modern  
materials engineering  
involves exploitation  
of relationships  
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elements of the field—structure and composition, properties, synthesis and processing, and performance (i.e., the elements shown schematically in Figure 1.10), basic science, and industrial and broader societal needs.

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work with diverse  
types of materials  
(e.g., metals,  
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composites) for a  
broad range of  
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