

<i>Interactive presentation</i>	
What is biomedical engineering?	
What are the functions of bone?	
What are the two types of bone?	
Who has had a broken bone?	
How does broken bone heal? Is it different for children and adults?	
What are the problems of bone disease?	
How was your bone stabilized to heal?	
What are the differences and similarities of this broken bone model to real broken bone?	
What are the limitations of the model?	
Are the materials used a good representation of bone?	
What part of the bone does the cardboard/styrofoam represent?	
Why is metal the material of choice for bone implants?	
<i>Hands-on activity</i>	
Think like an engineer	What material would you use? Plastic or metal?
	How many plates/screws would you use?
	Where would you put the plates/screws?
	What material would you use for the osteoporosis fracture? Why?
	If the implant can fail, how do you think it will fail?
	How can you calculate the forces in the mechanical testing?
	If you were performing this surgery on a real person, how could you limit the surgery time?
Think like a surgeon	How many implants would you use?
	How many screws would you use?
	Does the implant need to be clean before it is implanted?