

Read through the articles on Bone Mineral Density and How X-Rays Work. Answer the following questions as you read on your own sheet of paper.

Bone Mineral Density

- 1.) What are three methods of testing BMD?
- 2.) How is this information used?
- 3.) What is it called when our bones naturally become thinner?
- 4.) What are some ways to increase bone density and strength?
- 5.) What is the most accurate way to measure BMD?
- 6.) What does DEXA stand for?
- 7.) What are two reasons DEXA is a beneficial method to measure BMD?
- 8.) What is one drawback form using DEXA?
- 9.) What is one disadvantage in using P-DEXA?
- 10.) In what areas of the body is DPA used to measure BMD?
- 11.) What are three advantages of ultrasound?
- 12.) What is one disadvantage of ultrasound?
- 13.) What is QCT?
- 14.) What are disadvantages of QCT?

How X-Rays Work

- 15.) X-rays were invented accidentally in 1895 by what German physicist?
- 16.) What are modified x-rays used for?
- 17.) What three events occur when atoms emit light?
- 18.) What are some other ways that x-rays are used (outside of medicine)?
- 19.) Extra energy is released in the form of what type of photon?
- 20.) In an x-ray negative, how do hard and soft materials appear?
- 21.) Doctors can bring different materials into focus by doing what?
- 22.) What are contrast media?