

Bones, Muscles, and Brains Britannica Materials

The following *Britannica Online School Edition* materials support Mesa Public Schools' 5th Grade Science program. All Mesa schools can access these resources online at www.school.eb.com or via the link from the Britannica Web's Best Sites. Teachers and students can access these links, including *Britannica Online School Edition*, from school or from home.

1) Skeletal System

Skeletal System: www.school.eb.com/elementary/article?articleId=353778

Bone: www.school.eb.com/elementary/article?articleId=390656

Skull: www.school.eb.com/elementary/article?articleId=399598

www.school.eb.com/elementary/art-70984 (Teacher Resource)

Building Strong Bones (2:05): www.school.eb.com/elementary/art-68403

Human Skeleton (2:28): www.school.eb.com/elementary/browse/art-68398

Website: http://kidshealth.org/kid/body/bones_noSW.html

Description: Encyclopedia articles, photos, diagrams, website and videos about the skeletal system, bone, and skull and their functions of protection, motion, and support.

Mesa Activities: 2, 3, 4, 5

Arizona Academic Science Standard: S4C1PO1

2) Bone and Muscle Activities

Musculoskeletal Mania: www.school.eb.com/lm/games/GS_4_5/GS_4_5.htm

Body Works: www.school.eb.com/student/games/GE_1_10/GE_1_10.htm

Description: Online activities where students match the bone, muscle, or body structure with its location or function in the human body.

Mesa Activities: 2, 3, 4, 5

Arizona Academic Science Standard: S4C1PO1

3) Knees

Link: www.school.eb.com/elementary/article?articleId=399518

Joint Movement (1:13): www.school.eb.com/elementary/browse/art-68399

Description: Encyclopedia article about the biggest joint in the human body, and a video about the way joints enable us to move.

Mesa Activities: 5, 7

Arizona Academic Science Standard: S4C1PO1



4) Name the System 

Link: www.school.eb.com/student/games/GS_3_5/GS_3_5.htm

Description: Online activity that asks students to match the part of the body with its appropriate system: skeletal, circulatory, nervous, or respiratory.

Mesa Activities: 3, 4, 5

Arizona Academic Science Standard: S4C1PO1, S4C1PO3

5) Muscle  

Link: www.school.eb.com/elementary/article?articleId=353503

Website: http://kidshealth.org/kid/body/muscles_noSW.html

Description: Encyclopedia article and website about muscles, including smooth, cardiac, and skeletal muscles.

Mesa Activities: 8

Arizona Academic Science Standard: S4C1PO2

6) Heart    

Article: www.school.eb.com/elementary/article?articleId=353235

Video (1:35): www.school.eb.com/elementary/art-68393

Website: http://kidshealth.org/kid/body/heart_noSW.html

Description: Encyclopedia article, video, and website about the heart muscle and its functions.

Mesa Activities: 9

Arizona Academic Science Standard: S4C1PO2

7) Nova's Electric Heart  

Link: <http://www.pbs.org/wgbh/nova/eheart>

Description: Website from PBS with many heart facts and interactive exercises, including Operation Heart Transplant, which lets you be the surgeon.

Mesa Activities: 9

Arizona Academic Science Standard: S4C1PO2

8) Stomach  

Link: www.school.eb.com/elementary/article?articleId=353813

Parts of the Stomach: www.school.eb.com/elementary/art-54050

Description: Encyclopedia article about the stomach and its muscles.

Mesa Activities: 9

Arizona Academic Science Standard: S4C1PO2



9) **Movin' and Groovin'** 

Link: www.school.eb.com/lm/games/GS_4_4/GS_4_4.htm

Description: Online activity that has students determine whether an action is voluntary or involuntary.

Mesa Activities: 10

Arizona Academic Science Standard: S4C1PO4

10) **Brain**    

Article: www.school.eb.com/elementary/article?articleId=352879

Video (1:35): www.school.eb.com/elementary/art-82781

Video (2:45): www.school.eb.com/lm/animations/obrain0001d4/product.html

Website: http://kidshealth.org/kid/body/brain_SW.html

Description: Encyclopedia article, website, and video about the different parts of the brain and their functions.

Mesa Activities: 11

Arizona Academic Science Standard: S4C1PO3

11) **Nervous System**  

Link: www.school.eb.com/elementary/article?articleId=353527

Description: Encyclopedia article about the nervous system and its components and functions.

Mesa Activities: 11, 12

Arizona Academic Science Standard: S4C1PO3

12) **Neuroscience for Kids** 

Spinal Cord: <http://faculty.washington.edu/chudler/spinal.html>

Nervous System <http://faculty.washington.edu/chudler/auto.html>

Description: Websites from the University of Washington that explain the function of the spinal cord and the nervous system.

Mesa Activities: 11, 12

Arizona Academic Science Standard: S4C1PO3



Reading



Diagram



Online Resource



Activity



Video

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