



LEARN ABOUT MUSCLE!

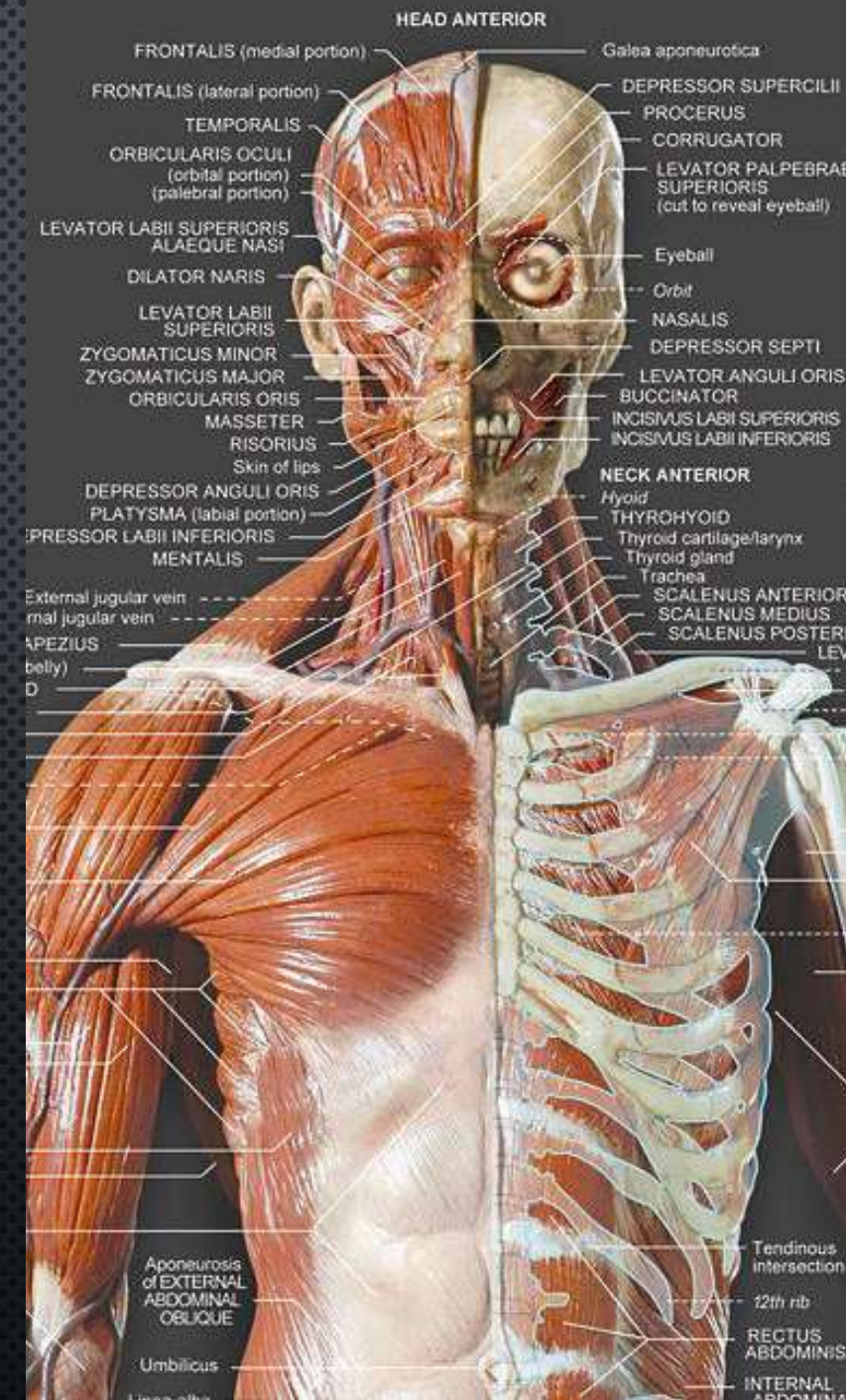


LEARNING INTENTION

TO LEARN ABOUT THE MUSCULAR SYSTEM

➤ SUCCESS CRITERIA:

1. EXPLAIN THE 3 TYPES OF MUSCLE
2. IDENTIFY HOW MANY MUSCLES THERE ARE
3. DESCRIBE WHAT MUSCLES ARE MADE OF
4. EXPLAIN HOW MUSCLES CREATE MOVEMENT





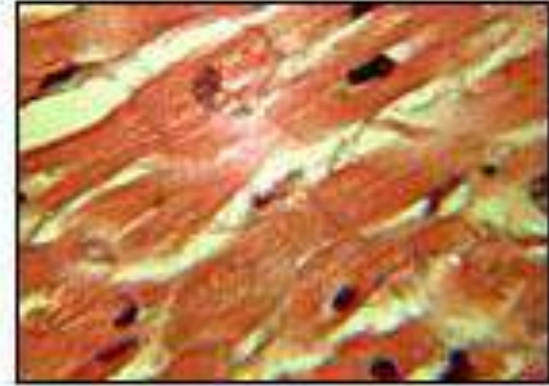
THE 3 TYPES OF MUSCLE



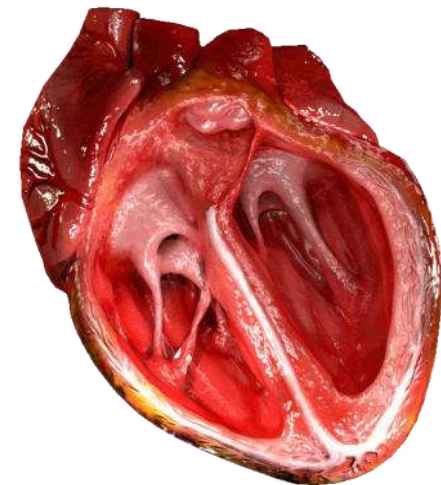
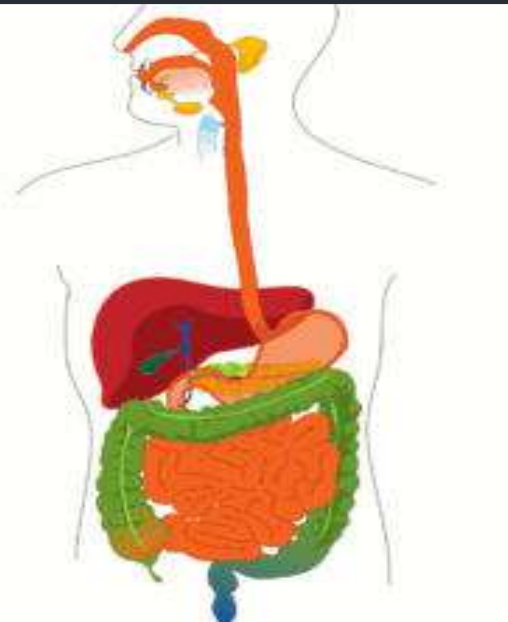
Skeletal muscle



Smooth muscle

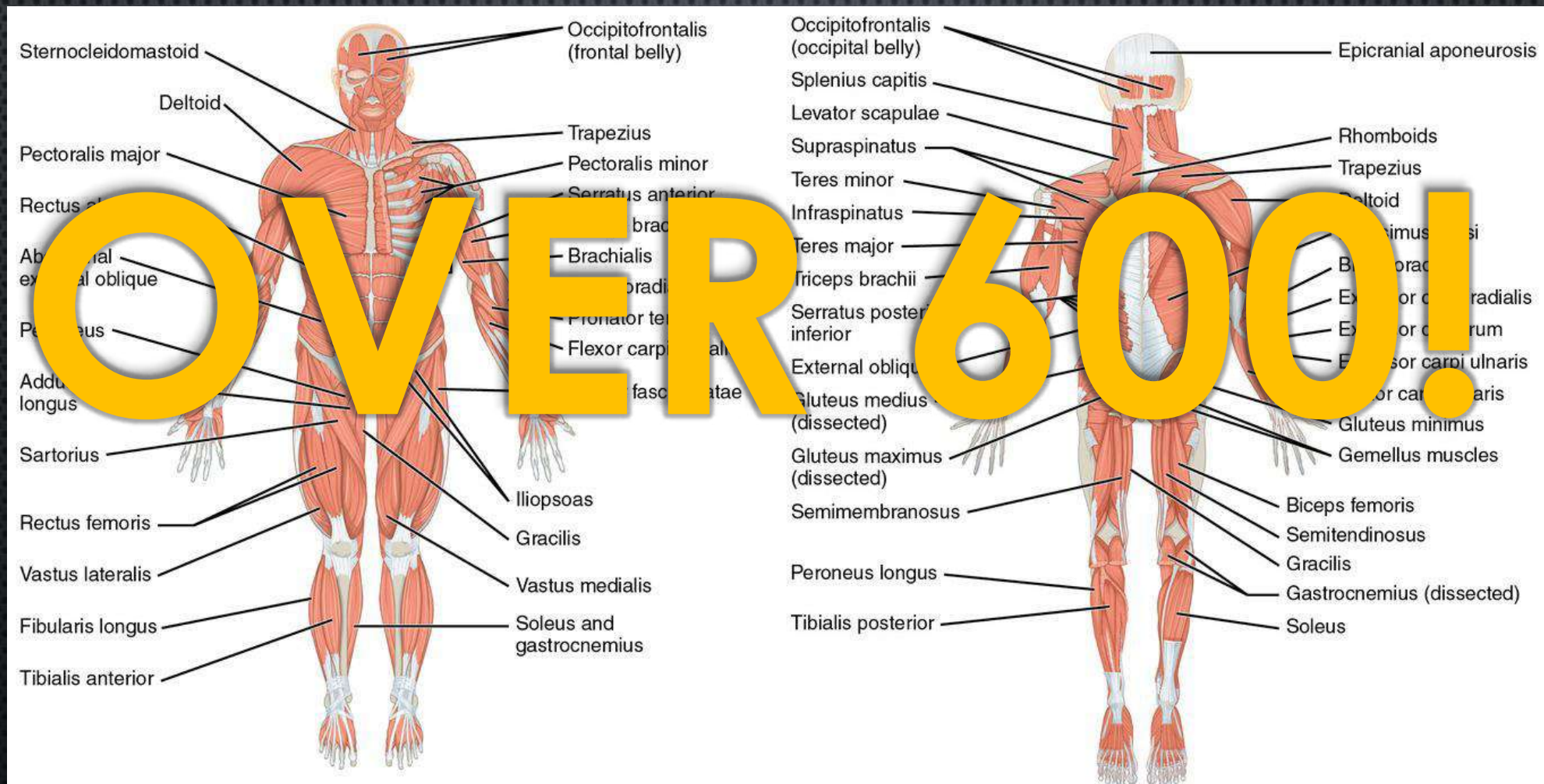


Cardiac muscle



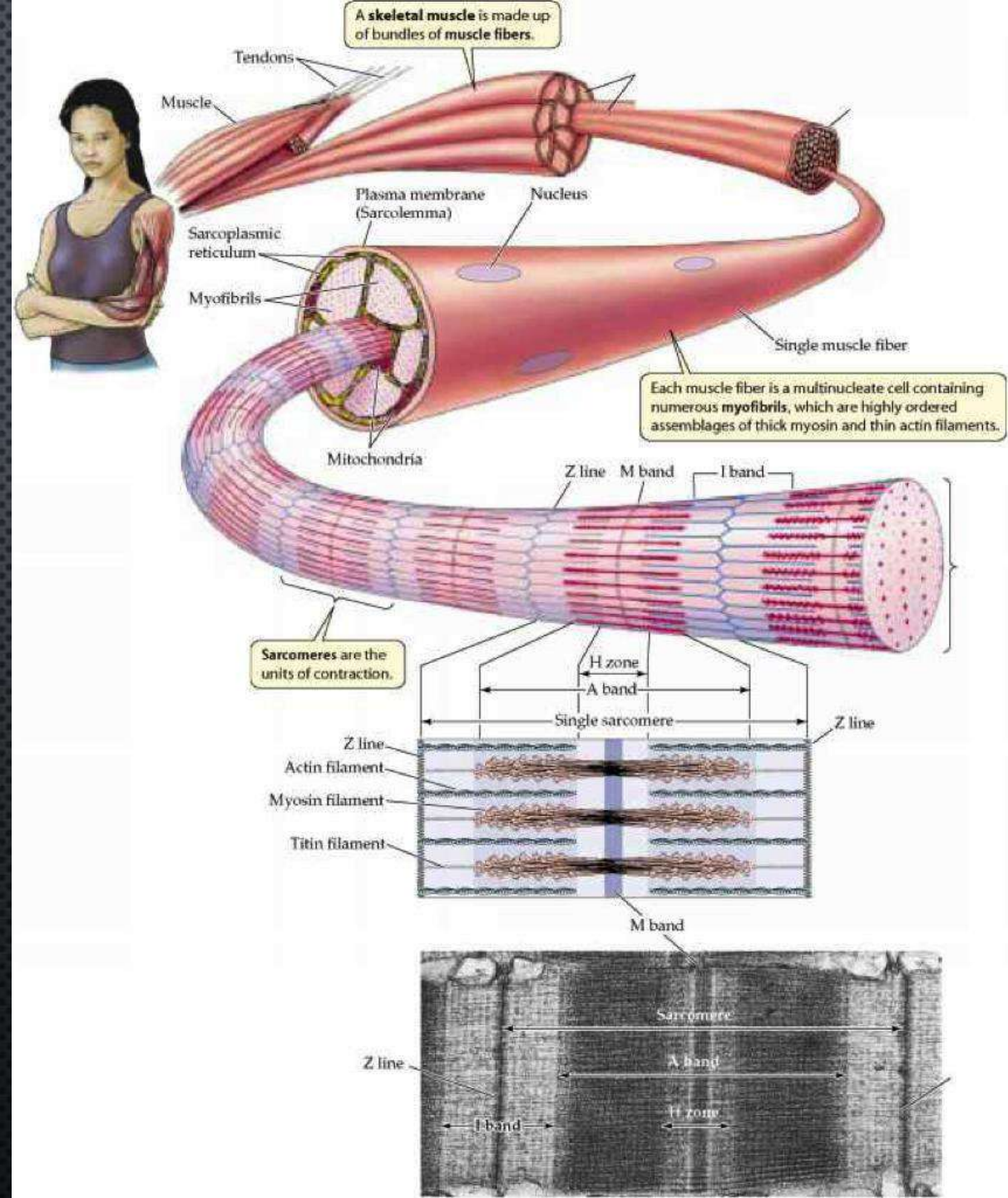


HOW MANY MUSCLES?





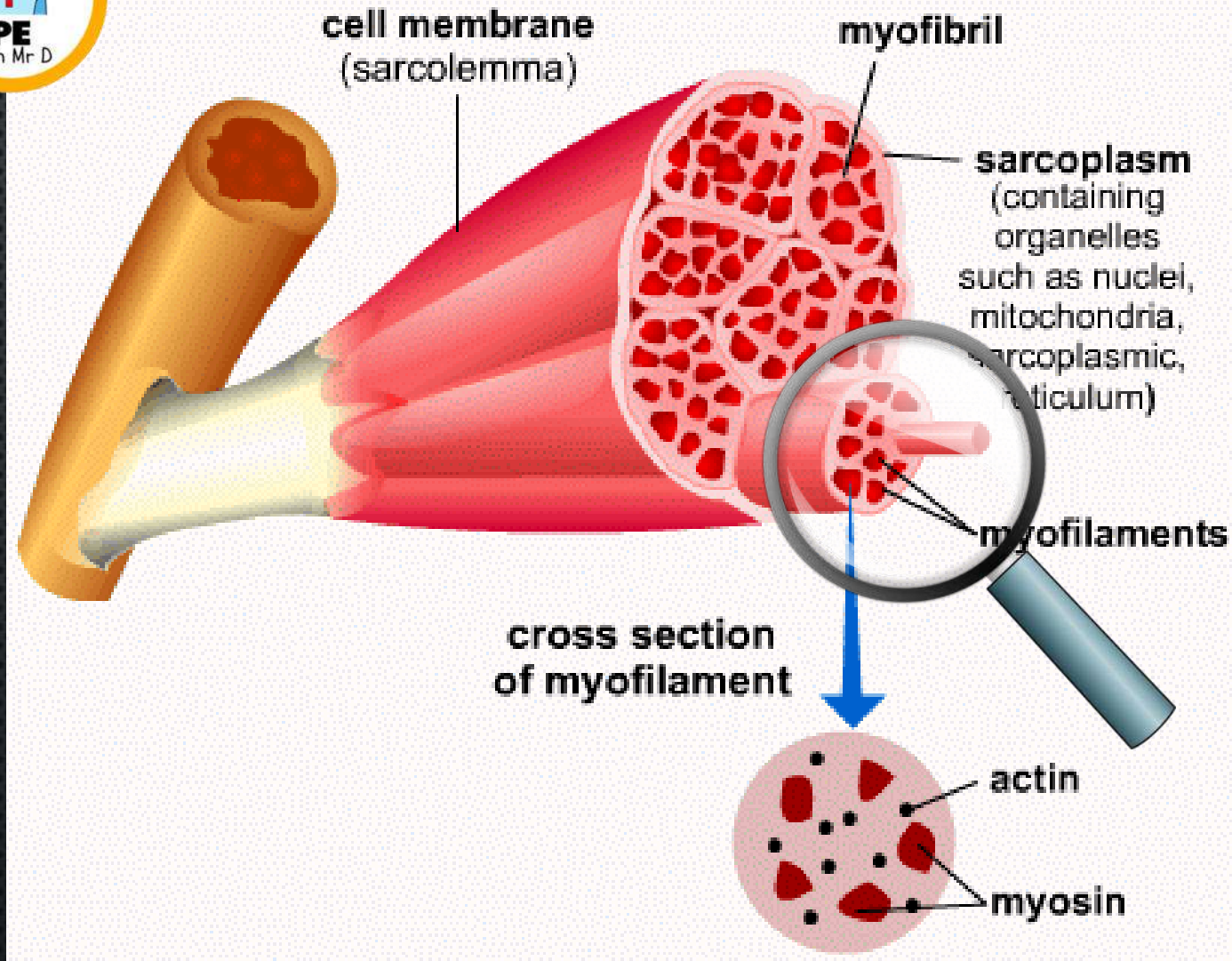
WHAT ARE MUSCLES MADE OF?



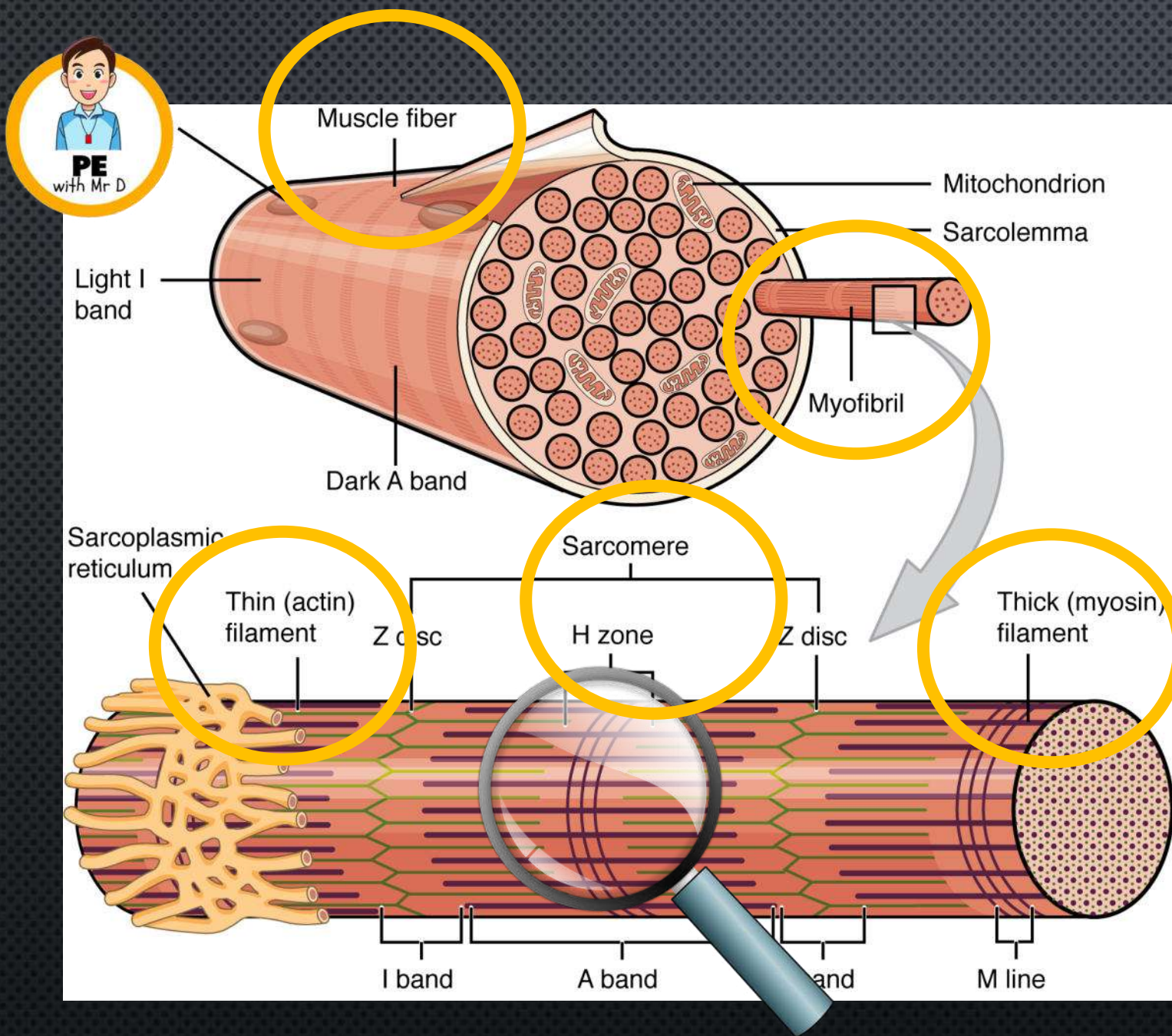


WHAT ARE MUSCLES MADE OF?





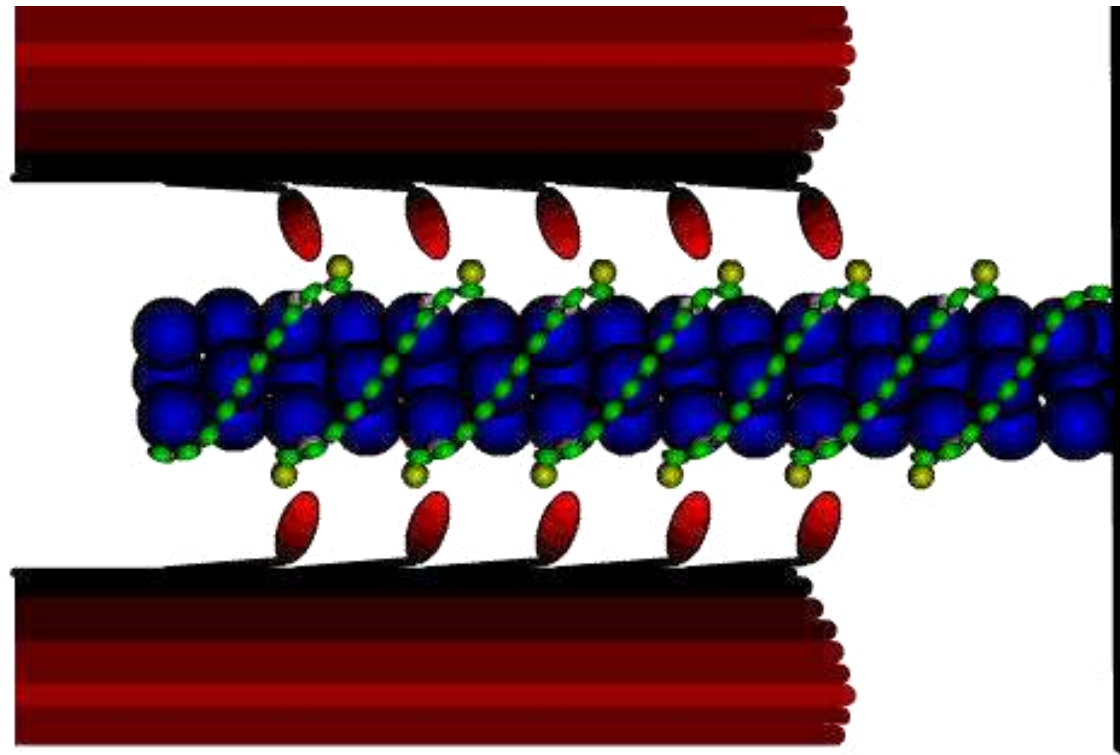
**WHAT ARE
MUSCLES
MADE OF?**



**WHAT ARE
MUSCLES
MADE OF?**



HOW DO MUSCLES CREATE MOVEMENT?





**THAT'S HOW
MUSCLES
CREATE
MOVEMENT!**





LET'S REVIEW!

HAVE YOU LEARNT ABOUT THE MUSCULAR SYSTEM?



SUCCESS CRITERIA 1:

CAN YOU EXPLAIN THE 3 TYPES OF MUSCLE?

1. _____ = _____

2. _____ = _____

3. _____ = _____



SUCCESS CRITERIA 1: **CAN YOU EXPLAIN THE 3 TYPES OF MUSCLE?**

1. **SKELETAL = OUTSIDE/VISIBLE MUSCLES THAT CREATE MOVEMENT – VOLUNTARY**
2. **SMOOTH = ORGANS & DIGESTIVE SYSTEM – INVOLUNTARY**
3. **CARDIAC = MUSCLE OF THE HEART – INVOLUNTARY**



SUCCESS CRITERIA 2: *HOW MANY MUSCLES ARE THERE IN THE BODY?*





SUCCESS CRITERIA 2: ***HOW MANY MUSCLES ARE THERE IN THE BODY?***

OVER 600!





SUCCESS CRITERIA 3:



CAN YOU DESCRIBE WHAT MUSCLES ARE MADE OF?



MUSCLES









MYOFILAMENTS (_____ & _____)





SUCCESS CRITERIA 3:

CAN YOU DESCRIBE WHAT MUSCLES ARE MADE OF?



MUSCLES



MUSCLE FIBRES



MYOFIBRILS



SARCOMERES



MYOFILAMENTS (ACTIN & MYOSIN)





SUCCESS CRITERIA 4:

CAN YOU EXPLAIN HOW MUSCLES CREATE MOVEMENT?

LARGE _____ FILAMENTS LATCH ONTO AND _____ ON
THE SMALLER _____ FILAMENTS, SHORTENING THE
_____. WHEN HUNDREDS OF SARCOMERES
LINED UP END-TO-END CONTRACT, THE MUSCLE
_____ AND CREATES MOVEMENT!



SUCCESS CRITERIA 4:

CAN YOU EXPLAIN HOW MUSCLES CREATE MOVEMENT?

LARGE **MYOSIN** FILAMENTS LATCH ONTO AND **PULL** ON THE SMALLER **ACTIN** FILAMENTS, SHORTENING THE **SARCOMERES**. WHEN HUNDREDS OF SARCOMERES LINED UP END-TO-END CONTRACT, THE MUSCLE **CONTRACTS** AND CREATES MOVEMENT!



HOW DID YOU GO?



GOLD MEDAL 4/4



SILVER MEDAL 3/4



BRONZE MEDAL 2/4