



TO LEARN ABOUT THE MUSCULAR SYSTEM

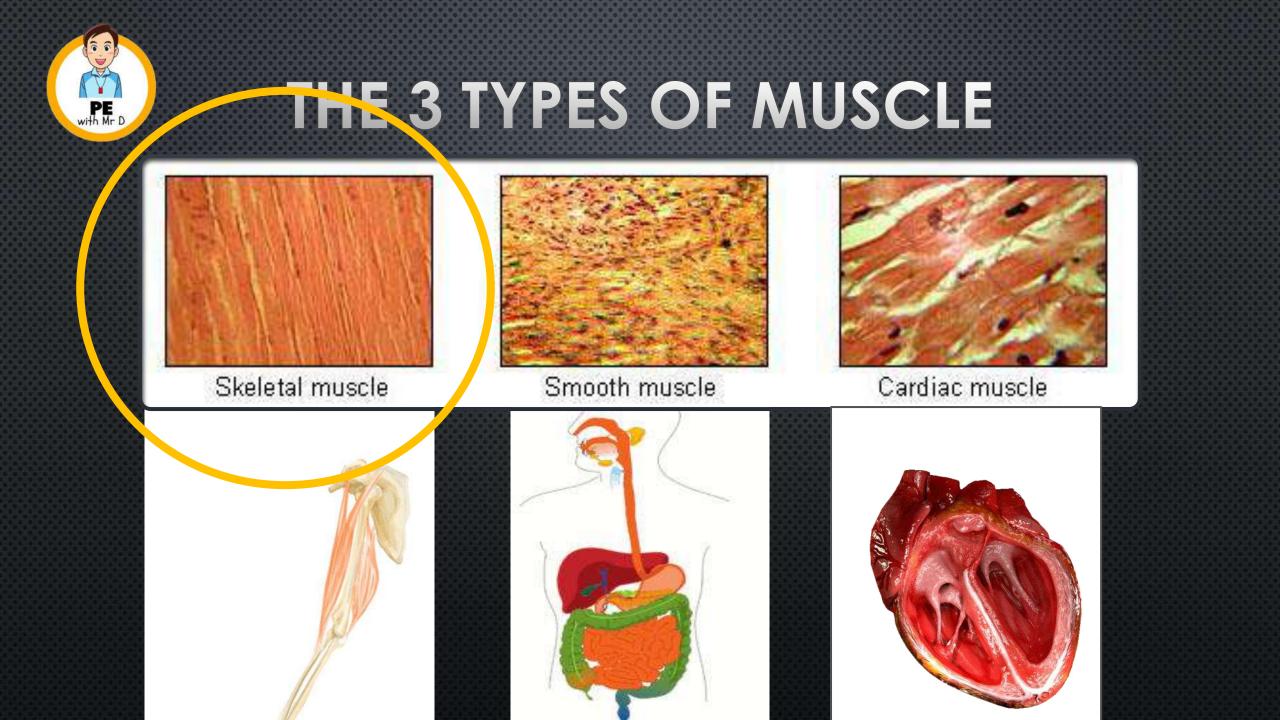
LEARNING INTENTION

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

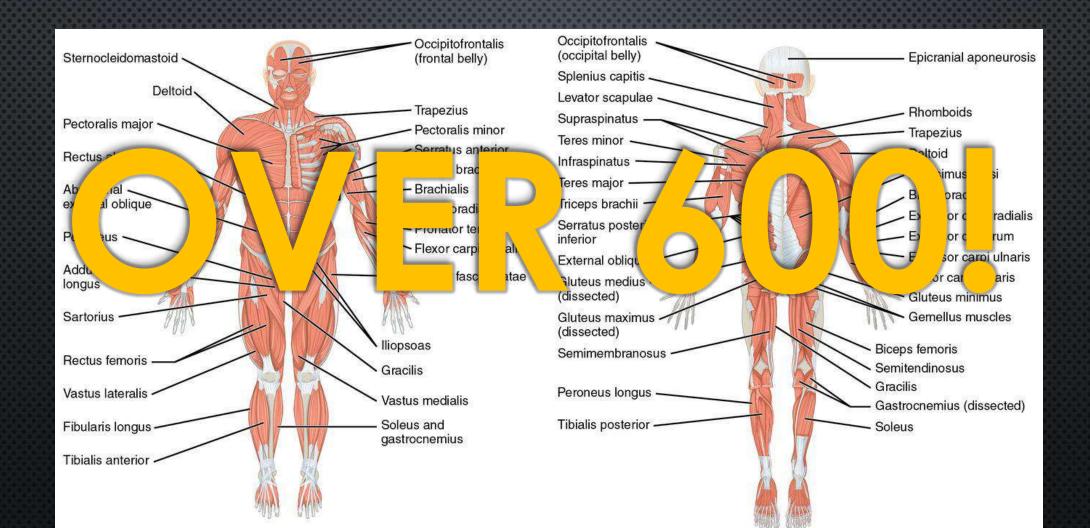
HEAD ANTERIOR FRONTALIS (medial portion) Galea aponeurotica DEPRESSOR SUPERCILI FRONTALIS (lateral portion) PROCERUS TEMPORALIS CORRUGATOR ORBICULARIS OCULI LEVATOR PALPEBRA (orbital portion) SUPERIORIS (palebral portion) (cut to reveal eyeball) LEVATOR LABII SUPERIORIS ALAEQUE NASI Eyebali **DILATOR NARIS** Orbit LEVATOR LABII NASALIS SUPERIORIS DEPRESSOR SEPTI ZYGOMATICUS MINOR ZYGOMATICUS MAJOR LEVATOR ANGULI ORIS BUCCINATOR ORBICULARIS ORIS INCISIVUS LABIT SUPERIORIS MASSETER INCISIVUS LABILINFERIORIS Skin of lip NECK ANTERIOR DEPRESSOR ANGULI ORIS Hyoid PLATYSMA (labial portion) THYROHYOID PRESSOR LABILINFERIORIS hyroid cartilage/larynx MENTALIS External luquiar vein Tendinous Aponeurosi ntersection **OF EXTERNA** ABDOMINA OBLIQUE RECTUS Umbilicus

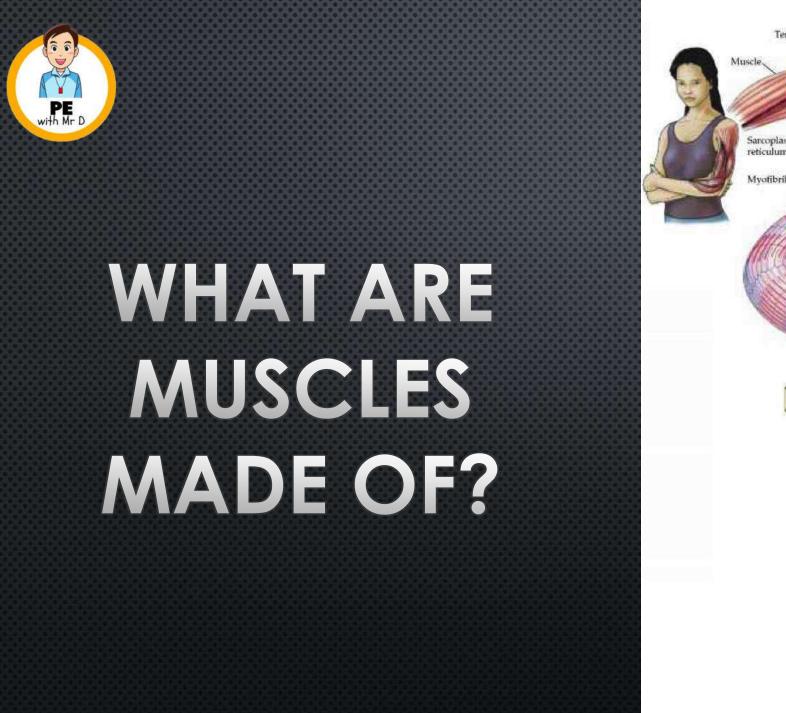
INTERNAL

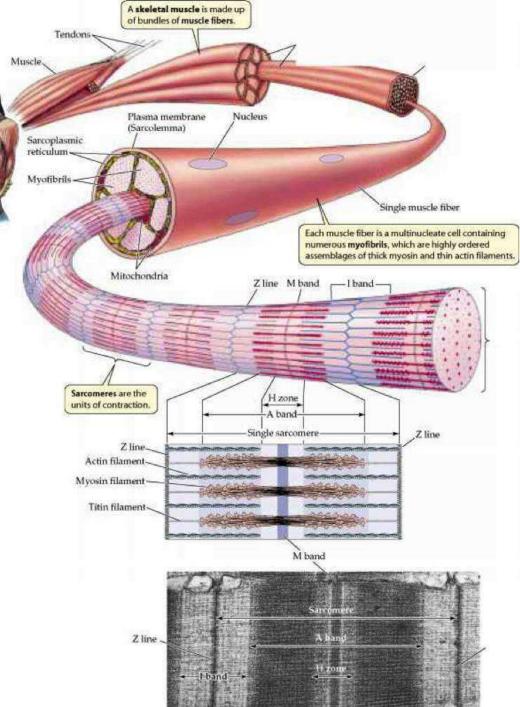




HOW MANY MUSCLES?



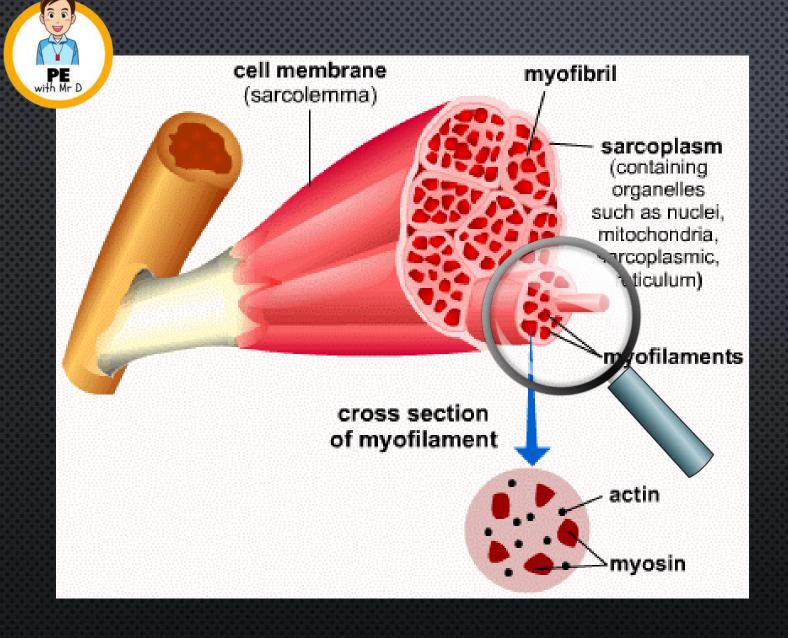




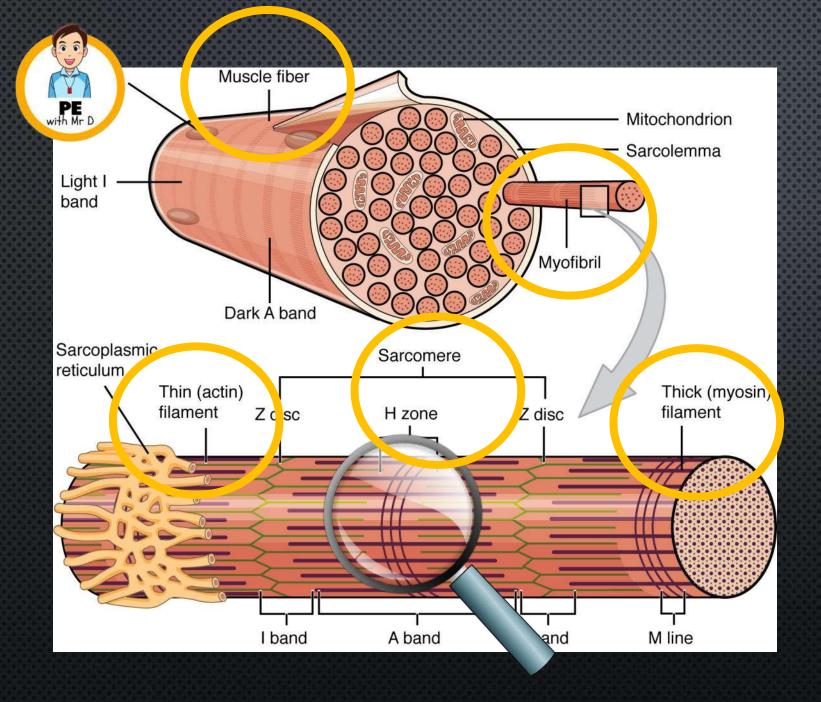


WHAT ARE MUSCLES MADE OF?





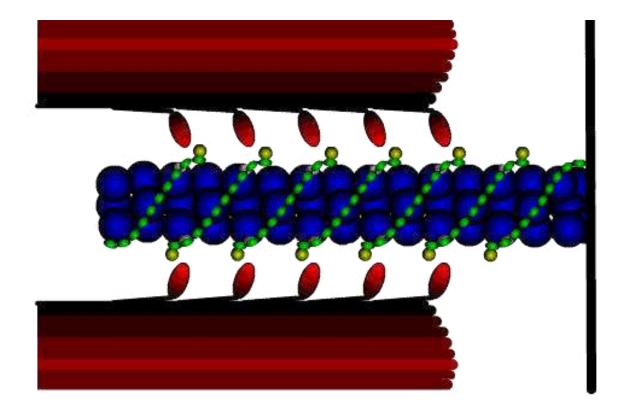
WHAT ARE MUSCLES MADE OF?

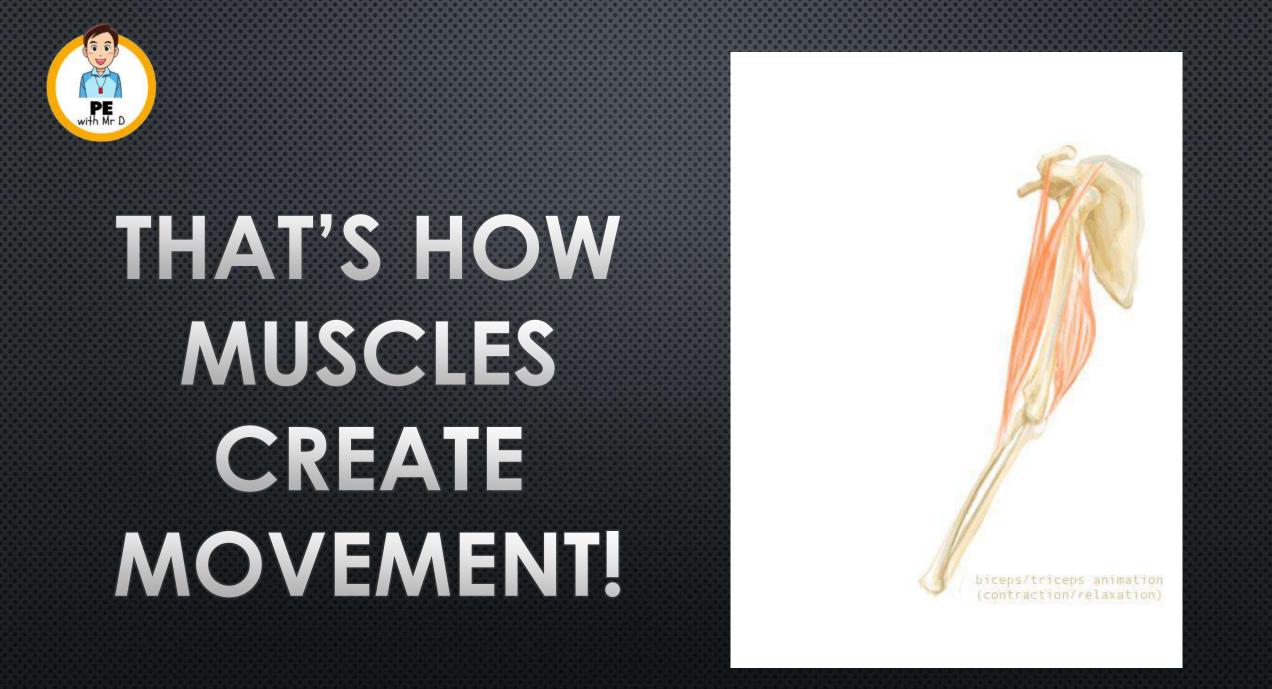


WHAT ARE MUSCLES MADE OF?

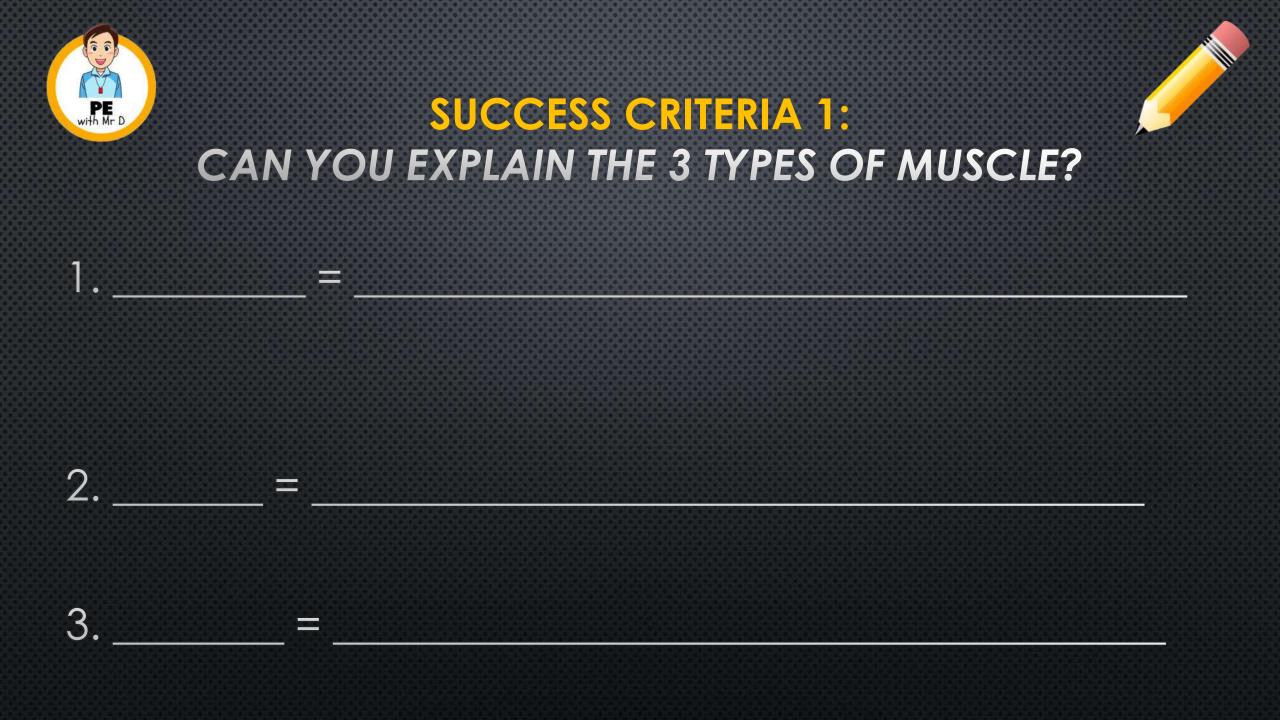


HOW DO MUSCLES CREATE MOVEMENT?











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



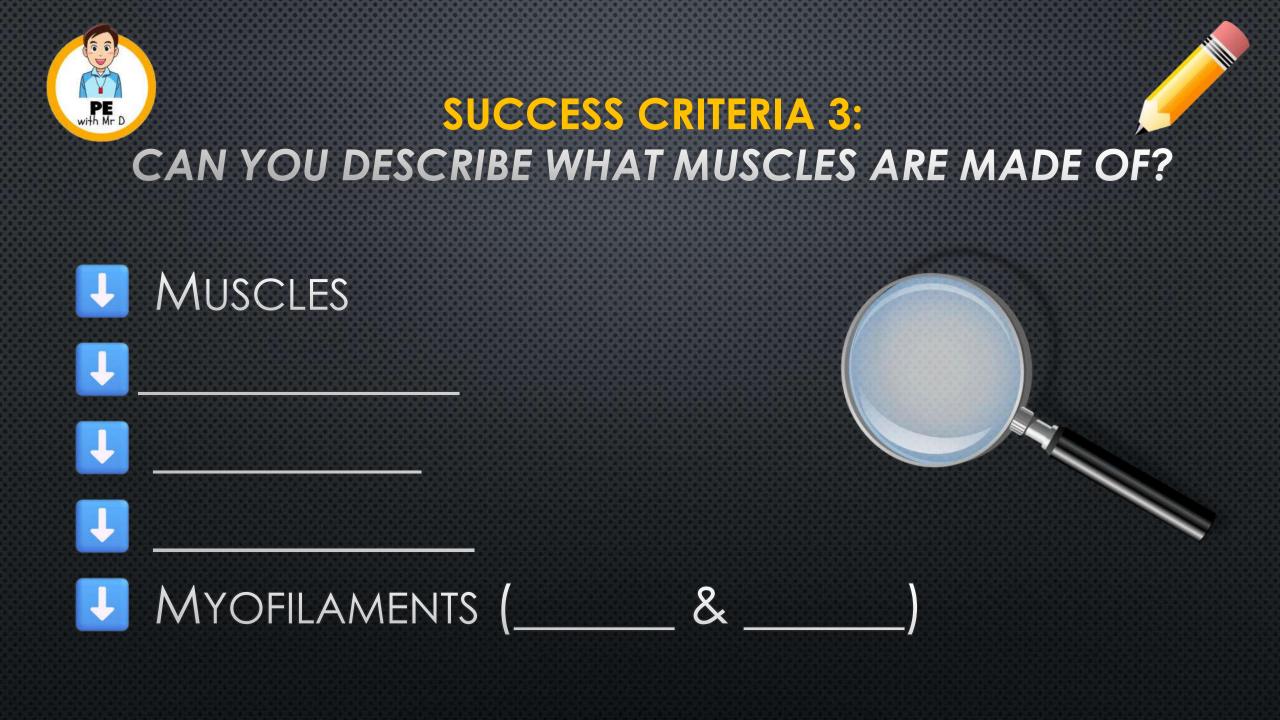
SUCCESS CRITERIA 2: HOW MANY MUSCLES ARE THERE IN THE BODY?





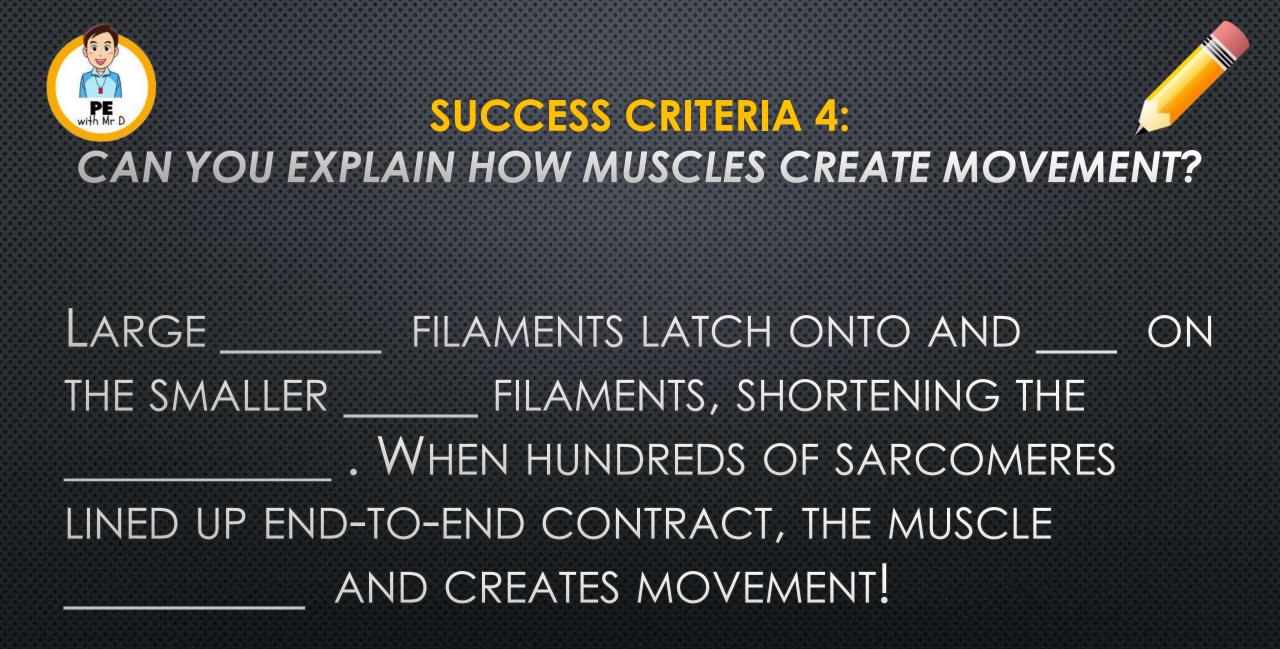
SUCCESS CRITERIA 2: HOW MANY MUSCLES ARE THERE IN THE BODY?

Over 600!





J MUSCLES J MUSCLE FIBRES J SARCOMERES J MYOFILAMENTS (ACTIN & MYOSIN)



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!

