

The Anthropology event challenges competitors to identify bones and estimate the victim's height. Participants will then match their findings to a list of missing persons, aiming to solve a simulated forensic puzzle.

Entry Requirements

- Competitors in this event compete individually, not as a team.
- Chapters can only register 3 teams to compete.

Materials

Competitors can/should provide the following materials. Competitors are only permitted to bring in the below materials to the competition. TPSA does not provide the below materials.

- **Photo Identification** Reference [the rulebook \(https://tpsa.info/rulebook\)](https://tpsa.info/rulebook) for details
- **Gloves**
- **Pen** Blue or Black Ink
- **Clipboard**
- **Measuring Device** Needed to measure bone to calculate height (acceptable devices are: tape measure, meter stick, osteometric board)
- **Calculator** A calculator may be used to determine the height of the victim.

Supplemental Documents

- [Anthropology Bone List and Formulas](#)
- [Anthropology Answer Document](#)

Procedures and Timeline

- **Check In (10 min Time Limit)** Competitors must check in to their event at their designated **check-in time**. Competitors that arrive **ten (10) minutes** after their designated check-in time will be marked as no-shows and not be allowed to compete out of respect for the time commitment made by our judges and volunteers.
- **Pre-Event Briefing (5 min Time Limit)** After check-in, competitors will be guided to the designated event area. Once there, the moderator will provide a comprehensive briefing, detailing the event's instructions, rules, and procedures. This briefing ensures that each competitor is well-informed and prepared for the subsequent stages of the competition.
- **Part 1 (10 min Time Limit)**
 1. The competitor will have 10 minutes to complete stage 1.
 2. When the moderator starts the timer and calls "start," the competitor will don exam gloves and move to the table with the 20 bones laid out.
 3. The competitor will examine each individual bone and record the name of the bone in the corresponding blank on the answer form.
 4. There will be 5 bones that will be flagged. For those 5 bones, the competitor will also document if the bone is from the left or right side of the body.
 5. At 10 minutes, the moderator will call time and the competitor must place their hands in the air and back away from the table.
- **Part 2 (10 min Time Limit)**
 1. The competitor will have 10 minutes to complete stage 2.
 2. When the moderator starts the timer and calls "start," the competitor will move to the table for the height calculation.
 3. The competitor will examine the pelvis and complete the sex determination chart.
 4. Use the long bone provided to measure and calculate the victim's height. Document your answer and show all work.
 5. Using the sex and height determined, look through the missing persons list and determine which person(s) are potential match(es) to the victim. Document your answer.
 6. At 10 minutes, the moderator will call time, and the competitor must place their hands in the air and back away from the table. The competitor will turn their answer document into the judge for scoring.
- **Evaluation and Scoring (5 min Time Limit)** After the completion of the event, the judges will convene to assess each competitor's/team's performance based on a standardized rubric. This stage is conducted without the presence of the competitors. Judges will evaluate the criteria outlined in the rubric to ensure a fair and objective scoring process. Once all assessments are finalized, scores will be recorded for each competitor/team.

Safety Protocols

- **Long Pants** Competitors must wear pants that cover the entire leg. No portion of the leg shall be visible.
- **Jewelry** Rings must feature a continuous, even, and unadorned exterior surface. Necklaces must not be visible from the outside of the uniform. Bracelets may not be worn. Facial piercings must be removed or covered with a band-aid.
- **Hair** All hair must be secured out of the eyes for the duration of the event. Competitors with hair extending past the top of the shoulder shall wear their hair secured neatly in a bun or ponytail ensuring that no hair extends below the collar of the uniform. It is not

an exception to the rule that a student's chosen hair style is too thick to be secured above the collar.

- **Shoes** Competitors must wear closed-toe, closed- low-heel footwear for this event.
- **Fingernail Length** Competitors fingernails shall not extend past the tip of the finger.
- **Shirt Sleeves** Long sleeve shirts shall fit closely at the wrist and not extend past the wrist.
- **Pant Length** Pants shall not extend past the sole of the shoe.

Professional Dress Guidelines

To secure professionalism points, competitors should dress in attire that accurately reflects what professionals in the respective public safety careers would wear while performing the tasks associated with the event. Competitors are also expected to consult and follow the professional dress guidelines in the rulebook to qualify for points. Additionally, participation is contingent upon meeting all prescribed safety protocols.

Judge Qualifications

- Experience with anatomy and bone identification

Criteria	Unattempted	Unsatisfactory	Satisfactory	Proficient	Exemplary	Points
Identifying Bones						
Identifying Bones Only bone names written legibly and spelled correctly will be graded.	0 5 or less bones were correctly named.	20 21 22 23 6-9 bones were named successfully	24 25 26 27 10 -13 bones named correctly	29 30 31 32 14-17 bones named correctly	33 34 35 18-20 bones named correctly	0pts
Identifying Right/Left Only bone names written legibly and spelled correctly will be awarded 2 points	0 no bones were correctly identified as being from the right or left side of the body.	2 4 1 or 2 bones were correctly identified as being from the right or left side of the body	6 3 bones were correctly identified as being from the right or left side of the body	8 4 bones were correctly identified as being from the right or left side of the body	10 5 bones were correctly identified as being from the right or left side of the body	0pts
Safety						
Safety Competitors don gloves and handle bones with care	0 Did not wear gloves or handle bones with care	2 Did not wear gloves but attempted to handle bones with care	3 Did not wear gloves but handled bones with care	4 Did wear gloves and attempted to handle bones with care	5 Did wear gloves and handled bones with care	0pts
Sex Determination						
Sex Determination Complete the sex determination chart.	0 Did not attempt to determine sex.	1 Completed the sex determination chart but reached the wrong conclusions.	5 Completed the entire chart with 3 or more incorrect selections but correctly identified the sex.	7 Completed the entire chart with one or two incorrect selections but correctly identified the sex.	10 Checked all 5 sections correctly and correctly identified the sex.	0pts
Height Calculation						
Height Calculation measurements and calculations to determine height	0 did not attempt to calculate height	5 calculated height more than +/- 15 cm or 6 inches from actual height	10 calculated height +/- 10-15 cm or > 4 to < 6 inches from actual height	15 calculated height +/- 5-10 cm or >2 to <4 inches from actual height	20 calculated height within +/- 5 cm or 2 inches of actual height	0pts
Missing Person Identified						
Missing Person(s)	0 no missing person was identified or the incorrect missing person was identified as potentially being the victim.			10 the correct missing person(s) was/were identified as potentially being the victim.		0pts
Professionalism						
Dress Code	0 Does not fulfill the dress code requirements.		10 Fulfills the dress code requirements.			0pts

Total Score: 0 /100 pts