

College Physics Summer Assignment for GSIP Physics Juniors 2026/2027

The summer assignment consists of four separate the so-called case studies:

- (1) The Cheerleader and the Football Player (5 pts.)
<https://www.nsta.org/ncss-case-study/cheerleader-and-football-player#tab>
- (2) Applying Newton's Third Law of Motion in the Gravitron Ride (5 pts.)
<https://www.nsta.org/ncss-case-study/applying-newtons-third-law-motion-gravitron-ride>
- (3) Escape from Colditz Castle (10 pts.)
<https://www.nsta.org/ncss-case-study/escape-colditz-castle>
- (4) The Itsy-Bitsy Spider: An Analysis of Spider Locomotion (10 pts.)
<https://www.nsta.org/ncss-case-study/itsy-bitsy-spider>

To complete the assignment, click on each link and then select "DOWNLOAD CASE" to access the full case study. Carefully read each one and answer the questions to the best of your ability. All four case studies should be combined into a single PDF document and submitted through Canvas no later than Friday, August 28, 2026.

Good luck with the assignment!