

External assessment 2022

Stimulus book

Design

General instruction

- Work in this book will not be marked.

Design problem

A sporting club wishes to be identified as a sustainable organisation within the community. Club management has determined the regular cycle of replacing equipment results in unsustainable practices. Of most concern is the regular disposal of used functional equipment such as balls, bats, chairs and uniforms. There is a design opportunity to use circular design methods to reduce this waste and improve the sustainability of the club.

Design criteria

- Limit the waste of functional equipment.
- Consider economic, ecological and social benefits to the club.
- Ensure the design promotes the sustainable approach of the club within the community.



References

Composite image created by QCAA incorporating:

Sporting club: Adapted from Brisbane City Council 2010, 'Colmslie Pool — entrance', www.flickr.com/photos/brisbanecitycouncil/6837730288/in/album-72157629223582576. CC BY 2.0.

Spectators watching soccer: MSC U15 Green 2013, 'Soccer parents on the sideline', www.flickr.com/photos/97059097@N07/10586043946. CC BY 2.0.

Tug-of-war: USARJ NCO Corps 2016, 'Service and sportsmanship: Camp Zama community runs, kicks and pulls toward the end of Army Birthday Week', www.flickr.com/photos/133905261@N04/27793481045. CC BY 2.0.

Food servers: USAG — Humphreys 2012, 'Springfest 2012 — U.S. Army Garrison Humphreys, South Korea', www.flickr.com/photos/31687107@N07/7194441804. CC BY 2.0.

Tennis player: RDNE Stock project 2021, 'Girl playing tennis', www.pexels.com/photo/girl-playing-tennis-8224492. Used under Pexels free licence.

Volleyball player: THIS IS ZUN 2020, 'Photo of man holding volleyball', www.pexels.com/photo/photo-of-man-holding-volleyball-3541810. Used under Pexels free licence.

Netball player: Adapted from Lucky Linda 2018, 'Netball-18', www.flickr.com/photos/olsenart/42784969021/in/album. CC BY 2.0.

Man and woman: Liliana Drew 2021, 'Man and woman talking while holding thermo jugs in park', www.pexels.com/photo/man-and-woman-talking-while-holding-thermo-jugs-in-park-8497669. Used under Pexels free licence.

Folding chairs: JBLM MWR 2017, 'Folding chairs', www.flickr.com/photos/jblmmwr/33148997183/in/album-72157678379291454. CC BY 2.0.

Rope: JBLM MWR 2017, 'Tug of war rope', www.flickr.com/photos/jblmmwr/33148991303. CC BY 2.0.

Clipboard: BRRT 2018, 'Clipboard blank empty', <https://pixabay.com/photos/clipboard-blank-empty-show-3150730/?download>. Used under terms of Pixabay licence.

Sporting element in orange bucket: JBLM MWR 2017, 'Sports box — volleyball net and ball, four softballs, two softball bats, eight softball gloves, horseshoe set, croquet set, two frisbees, basketball and football', www.flickr.com/photos/jblmmwr/33148992583/in/album-72157678379291454. CC BY 2.0.

Basketball court floor: Cottonbro studio 2021, 'Orange basketball hoop on fiberglass board', www.pexels.com/photo/wood-wall-playing-sport-6777245. Used under Pexels free licence.

Wooden step texture: Old Photo Profile 2010, 'Close-up of large wood texture area', www.flickr.com/photos/10361931@N06/5032203737. CC BY 2.0.

Soccer ball: Fulkerson, A 2020, 'Giant soccer ball', https://commons.wikimedia.org/wiki/File:Giant_Soccer_Ball.jpg. CC BY 4.0.

Golf clubs: Yellow531 2016, '채병근1', <https://commons.wikimedia.org/wiki/File:%EC%B1%84%EB%B3%91%EA%B3%A41.jpg>. CC BY 4.0.

Cricket bat: Acabashi 2019, 'Cricket bat at Walker Cricket Ground, Southgate, London, England 01', www.flickr.com/photos/150012178@N06/49502516627. CC BY 2.0.

Cricket wicket: FaceMePLS 2012, "'Straat Cricket" Hilversum', www.flickr.com/photos/38891071@N00/8134619938. All rights reserved.

Baseball glove: Timonthy Takemoto 2009, 'Baseball glove no shadow', www.flickr.com/photos/64015205@N00/3334305229. CC BY 2.0.

Rugby union ball: Fma12 2019, 'Gilbert zenon rugby ball', https://commons.wikimedia.org/wiki/File:Gilbert_zenon_rugby_ball.jpg. CC BY 4.0.



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