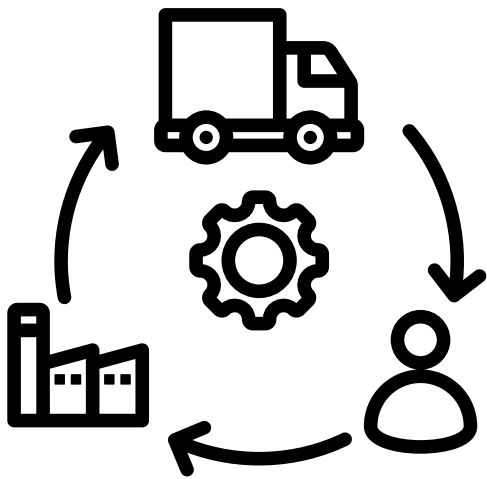
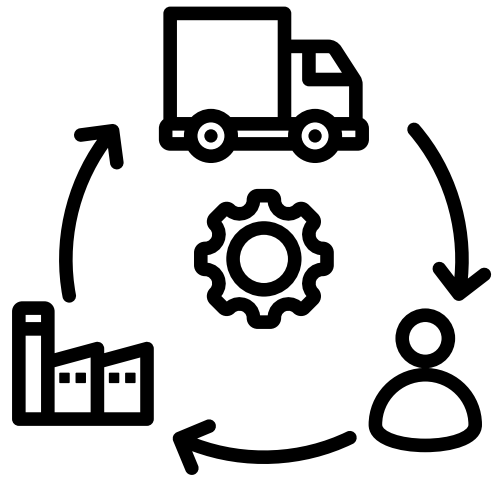


1



supply

2



supply

3



environment

4



hardship

2

Due to “supply chain issues,” you cannot receive this part in time for your deadline. You must make a substitution.

(teacher shows you the part)

ethical twist

1

Due to a cancellation by another customer, you have a surplus of this part and must incorporate it into your design.

(teacher shows you the part)

ethical twist

4

Your design must allow a third-world peasant farmer to do a task alone that used to take two or more people.

ethical twist

3

To reduce the carbon footprint of your design, you must use cardboard for three parts instead of metal.

ethical twist

5



empathy

6



aesthetics

7



environment

8



hardship

6

Your design must also aesthetically brighten up an aging and poorly maintained part of town.

ethical twist

5

Your customer is wheelchair bound. Ensure that they can use your design and access it safely.

ethical twist

8

Your design must replace four parts with parts made from materials that are locally resourced.

(teacher tells you the geographic region)

ethical twist

7

Customer lives in environmentally sensitive area. Design must have minimal impact on the land, wolves, prey animals, and ranchers.

ethical twist

9

Customer lives in an impoverished region with no electricity. Ensure that machine can be operated, maintained, and repaired.

ethical twist

10

Your customer is vision impaired. Ensure your design is easy to operate and marked accordingly.

ethical twist

11

Customer lives in an area of high rainfall and that is highly susceptible to flooding.

ethical twist

12

You just discovered that your idea is an exact duplicate of something else that is on the market.

ethical twist

10



empathy

9



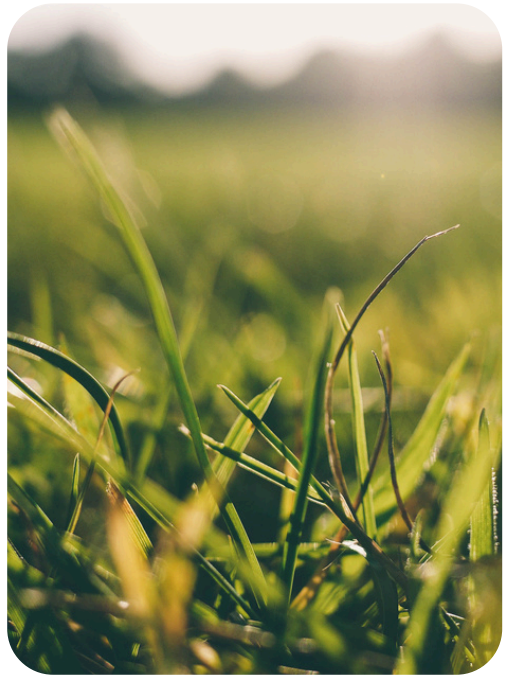
hardship

12



ideas

11



environment

13

Your customer is elderly and has limited range of motion and arthritic hip joints.

ethical twist

14

Your customer has small children. You must ensure safety and/or use for small children.

ethical twist

15

Your design must not contrast with the architectural style of the area where it is to be constructed.

ethical twist

16

Your design must not be taller than the other buildings in the area (25-feet).

ethical twist

14



empathy

13



empathy

16



aesthetics

15



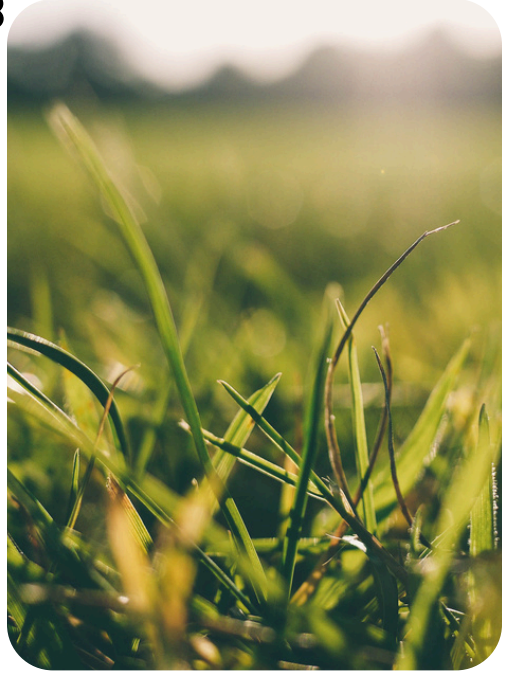
aesthetics

17



aesthetics

18



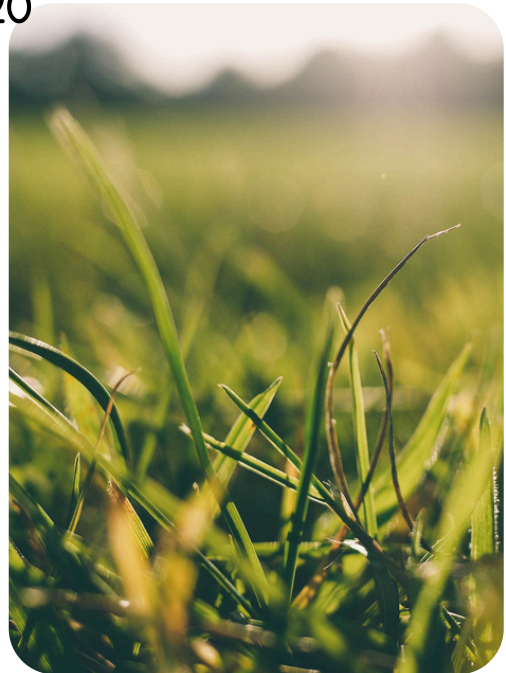
environment

19



environment

20



environment

18

Your design is to be constructed in a populated area. You must take measures to ensure that it operates with low noise.

ethical twist

17

Your design is being installed on a site where there is a historical site. Incorporate some of the demolished materials as an homage.

ethical twist

20

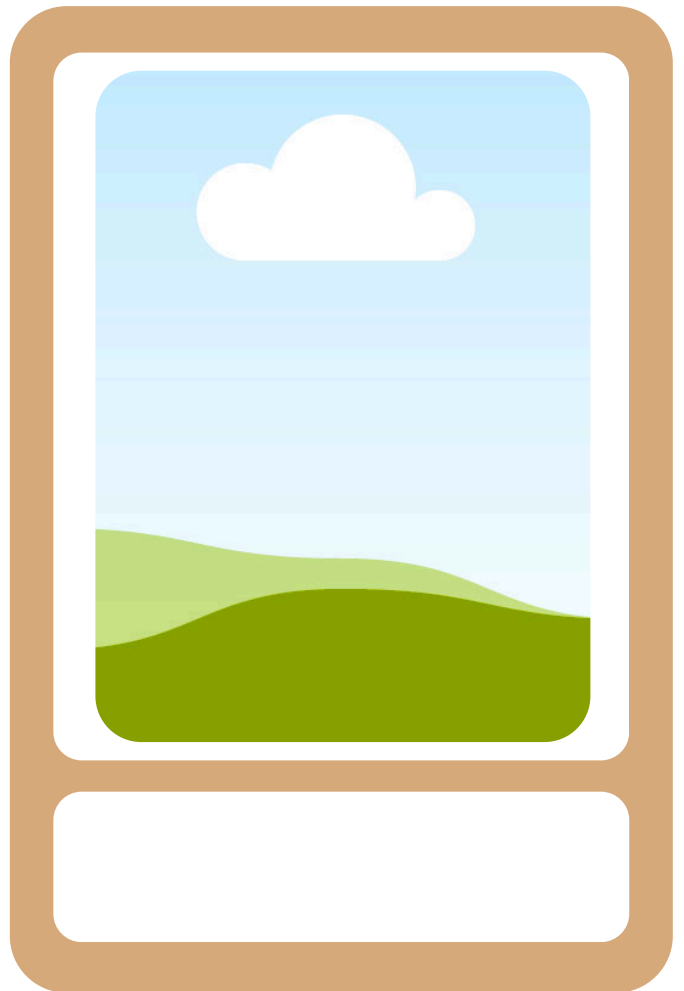
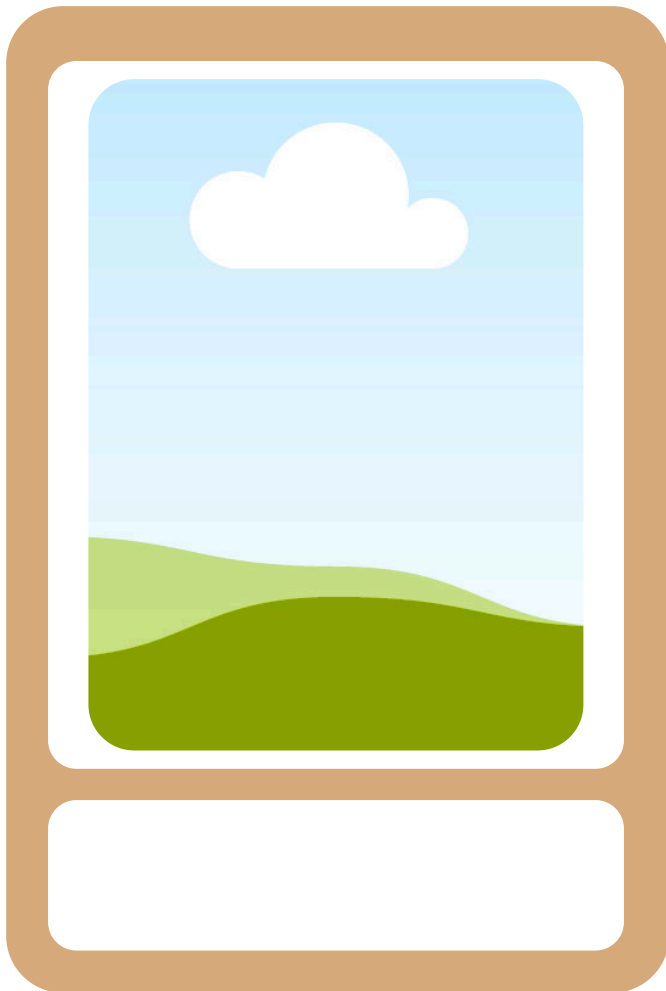
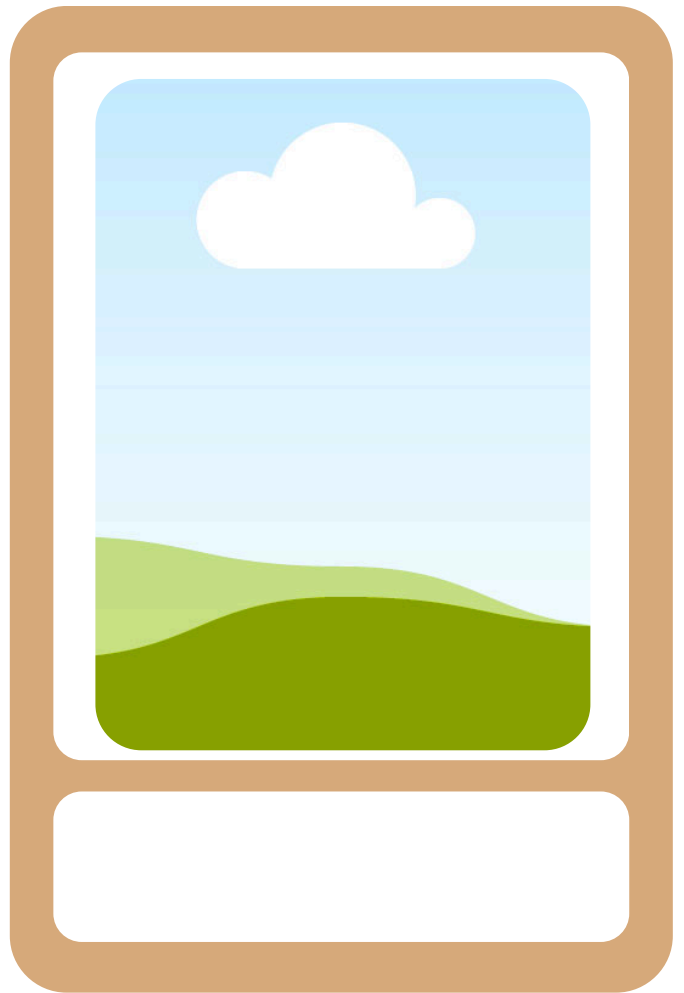
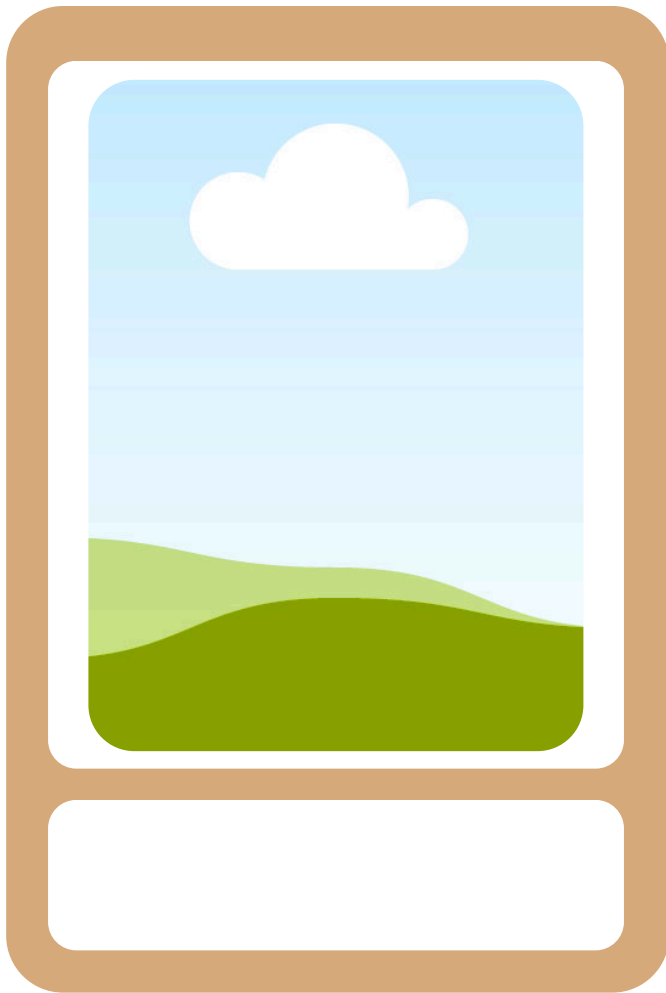
Your design is to be constructed in the Gulf Coast where hurricanes are common. Include extra bracing.

ethical twist

19

Your design is to be constructed in an area where earthquakes are common. Include extra bracing.

ethical twist



These are intentionally blank for your use



ethical twist



ethical twist



ethical twist



ethical twist