

DESIGN ACTIVITY 1

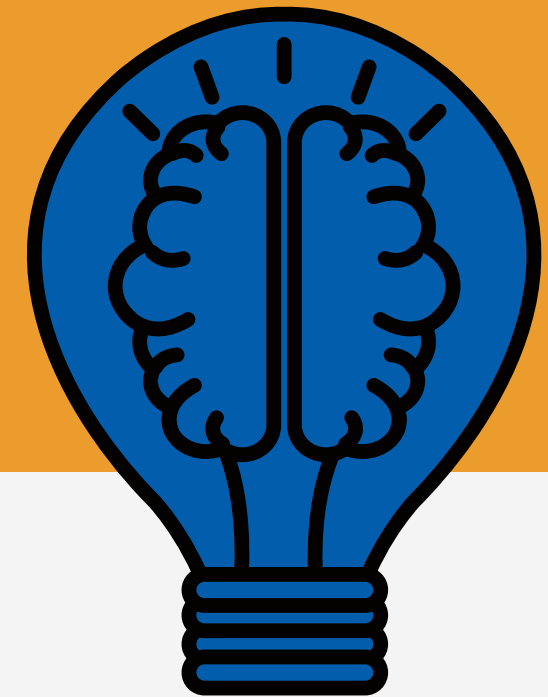
Assemble into teams of up to 6 people. This does not have to be your permanent team for the year.

Go to Design Activity 1 on your worksheet.

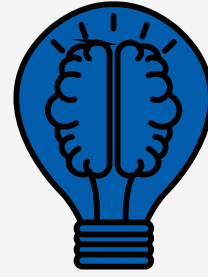
Brainstorm some theme ideas for your team and vehicle. A cohesive theme throughout your build and team will win you extra points with our judges!

1. Choose a team theme
2. Decide which events you are designing for e.g. drag, gymkhana, earth care, mixed or all
3. Decide on vehicle class and wheel layout

There will be some examples on the next slide!



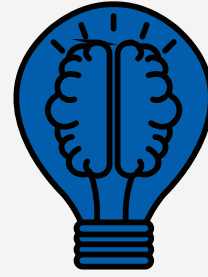
EXAMPLES



Team theme



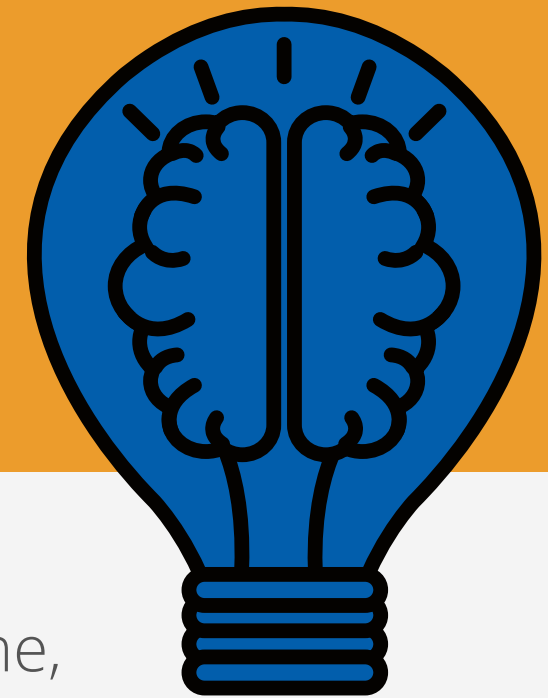
EXAMPLES



Designing for a specific event



DESIGN ACTIVITY 2



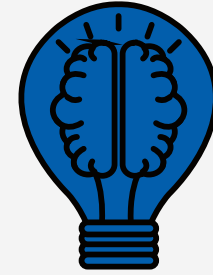
Go to Design Activity 2 on your worksheet. Now that you've chosen a vehicle and team theme, brainstorm some things you might want and need in your electric vehicle.

Wants are things you would *like* to have in your vehicle, like RGB lights or speakers.

Needs are things your vehicle *must* have, like a motor and wheels.



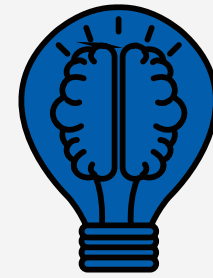
EXAMPLES



For an agile scooter-styled build:

Needs	Wants

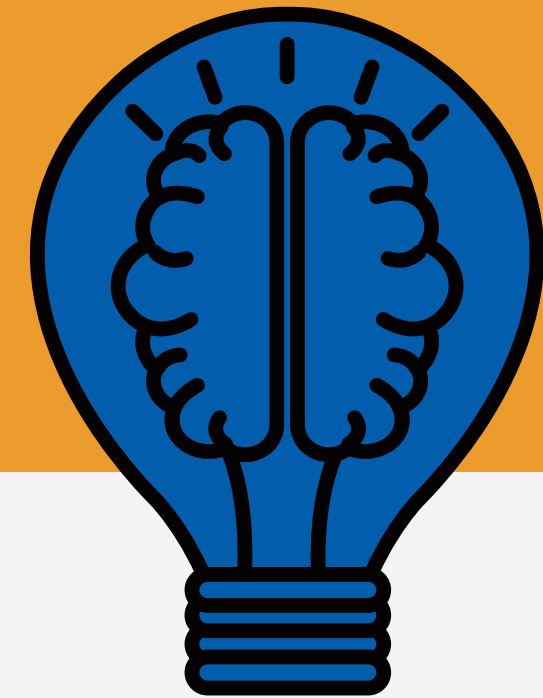
EXAMPLES



For an agile scooter-styled build:

Needs	Wants
350W motor Motor controller 2x standard kit batteries 2x small wheels Chassis/frame Seat Short wheelbase ...	Suspension RGB lights Indicators Tassels Storage compartment HUD Speedometer ...

DESIGN ACTIVITY 3



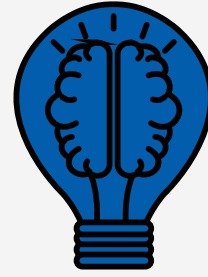
Go to Design Activity 3 on your worksheet.

Using your brainstorming from earlier, draw 3 different vehicle designs and select the team favourite. You should be considering how easy it is to build, your budget, and how well it fulfils the wants and needs you have listed. Be sure to draw top, side, and front views, and label key components.

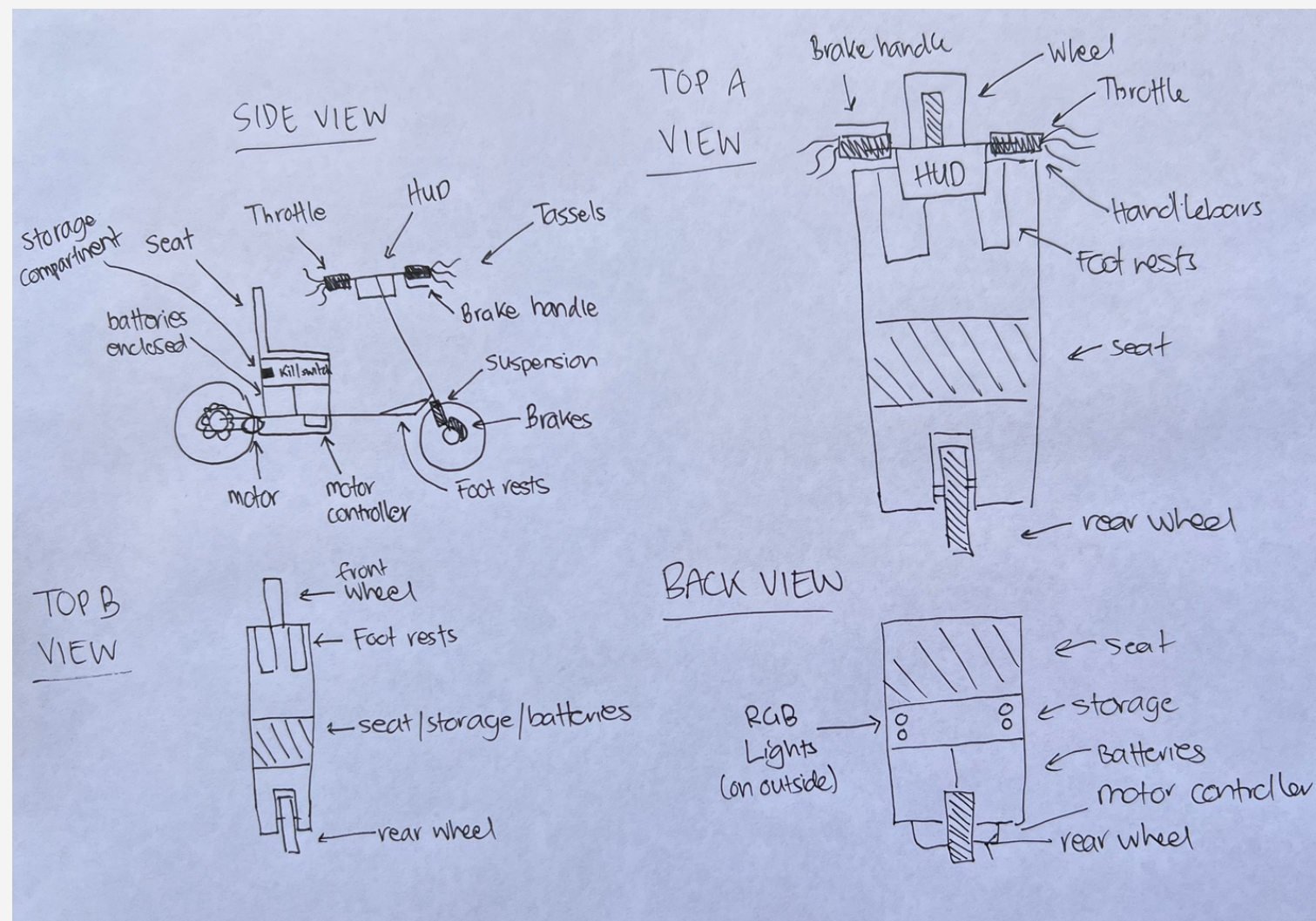
Let us know if you need extra paper!



EXAMPLES



For an agile scooter-styled build:



For a commuter trike build:

