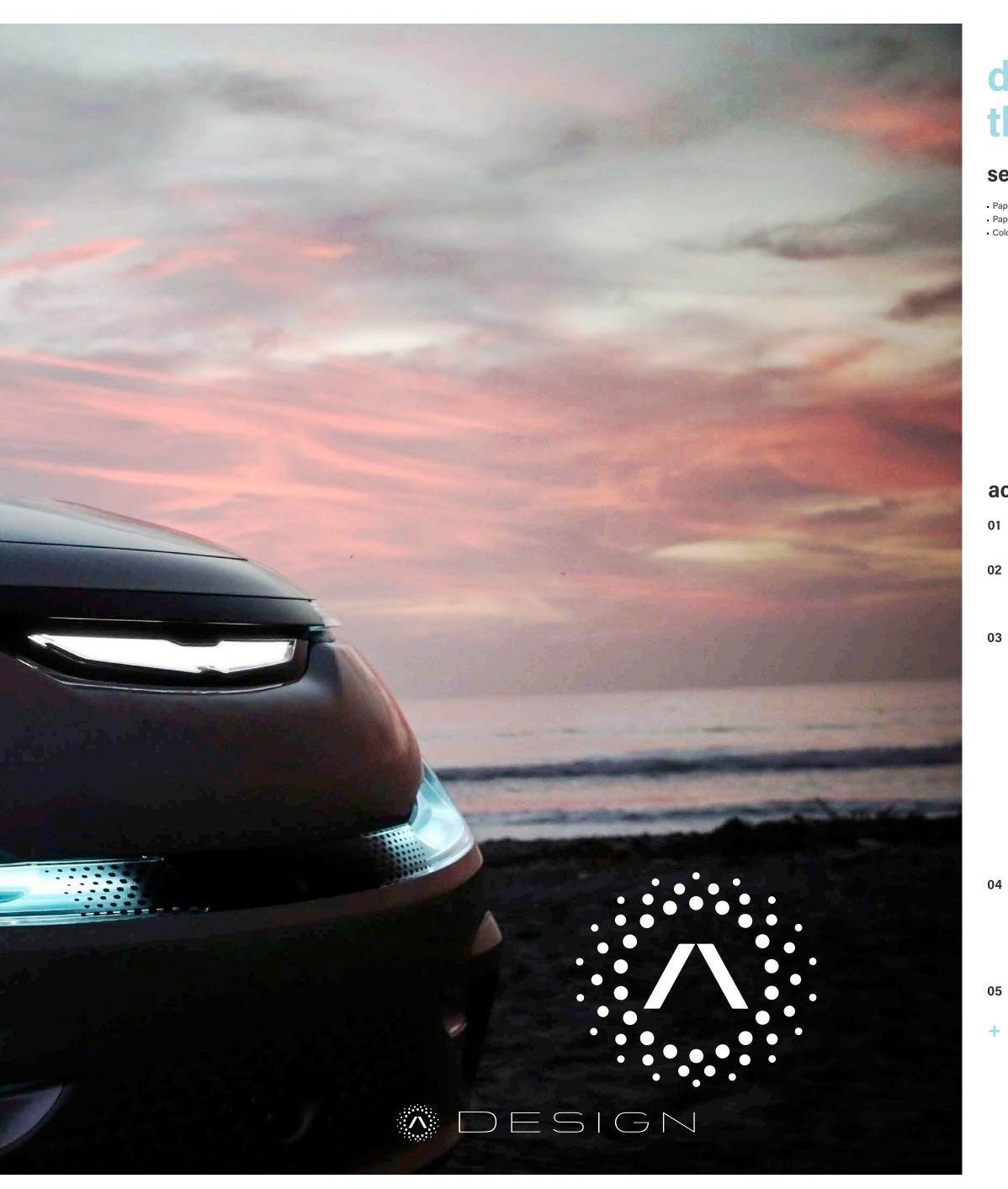
# imagination is a career.



## desiar

This 50 minute activity is a fun way to expose students to design thinking. The key to making this exercise a success is to encourage students to be creative and exploratory in their ideas.

#### set up:

- Paper cut into roughly 1" x 4" pieces, enough for each student to have 2 pieces Paper for students to ideate & sketch on

- Coloring materials of your choice: markers, pencils, paint, etc.

Give each student two 1" x 4" pieces of paper. One piece for each of the two following prompts:

#### who

Pick someone. It could be anyone: a celebrity, a historical figure, a character from a comic book, etc. This should be someone or something most students are familiar with. If you'd like to push your class, try having them design for a real-world group, for instance an underserved community.

#### new

Choose an emerging technology to incorporate in your design, this is your new. Examples could include mixed reality, autonomy, alternative power sources, and artificial intelligence. Any option your students come up with will unlock its own unique design opportunities.

#### activity:

**01** Allow three minutes for students to write their ideas for who and new: one who and one new per student.

**02** Take a couple minutes to collect prompt papers (keeping who & new papers separate) and then draw one who and one new at random. Each student will be designing transportation for this who, incorporating this new tech.

**03** Spend a few minutes discussing your who & new as a class. Collect key points about them.

For your who, try to have the discussion focus on what their life is like: what are their daily needs? How will the transportation be used? What kinds of things do they enjoy? What are their annoyances?

For your new, collect some basic information to make sure that everyone in the class has an equal opportunity to apply the technology in a meaningful way: how it works on a fundamental level, current applications, projected applications, etc.

After your discussion, split the students into two groups. One group will focus on features for the interior of the vehicle, and the other group will focus on the exterior of the vehicle.

**04** Give the students about 30 minutes to sketch their ideas. Circulate through the room and use prompts (on reverse) to keep them inspired & sketching as many ideas as possible.

Provide students with tools for coloring during final 10 minutes of drawing so that they can consider color & material choices for their vehicles / features.

05 Take ten minutes at the end to allow students to share their sketches and ideas with each other.

OPTION 1: If you'd like to extend this activity, try breaking students into groups and having them collaborate to build a model of their design. Each student can introduce their best ideas to the group and then work together to build an even better mobility solution.

#### big question:

how can we improve mobility & transportation for all people?

#### emphasize

Generating many ideas is better than a single very detailed idea.

Perfectionism is the enemy of ideation.

Don't get bogged down by what is possible today, instead consider what MAY be possible tomorrow.

Some students will be better at drawing than others and that is OKAY. The key to this exercise is the design thinking, drawing is primarily a way to express those thoughts. Anyone can improve their sketching skills, it just takes lots of practice.

#### contact

Student Relations Coordinator drivefordesign@stellantisgroup.com

#### designer story videos









color & materials



OPTION 2: If you'd like to make this activity a week-long exercise, try using the following schedul

Day 1: Research who & new Day 2: Sketch interior features Day 3: Sketch exterior features Day 4: Collaborate & build Day 5: Groups present models

#### tips

The goal of selecting a who is to get students thinking about human-centered design. Rather than designing something for themselves, they are forced to try to empathize with someone else, and design something around that person's wants and needs. By learning about the who, students can imagine specific use cases based on the person's daily life. Armed with this research & understanding, it becomes easier to discuss which of their design decisions make the most sense.

The goal of picking a new is to push the students into considering how technology that is being developed today can be implemented tomorrow. Their designs should leverage the new to improve life: both for humans and Earth as a whole.

Randomizing the who & new during this activity enables creative thinking by combining a person and a technology that may not always be imagined together. It also allows you as an instructor to see the sorts of things your students are interested in. This activity can easily be repeated by simply picking a fresh who & new from the ones your students already submitted.

#### prompts

#### interior

How does your who steer the vehicle? Do they need to steer the vehicle? Does your who have any limitations to consider, like hearing loss, or arthritis? What kinds of features will make them most comfortable while they travel? How long are the trips they typically take? Does this influence the designs? What are their storage needs like? Are there specific items they typically travel with? Can your new be implemented inside the vehicle? Will this improve the experience for your who?

#### exterior

How does the vehicle's shape feel? What feelings are important to your who while they drive (ex. safe, fun, cozy, powerful)? Does this vehicle make sense in the setting that your who will be using it in? What type of energy will the vehicle use to run? What does the vehicle's face look like if we imagine the headlights to be eyes? Does this feeling match the feeling of the vehicle's overall shape? Can your new be implemented on the vehicle's exterior? Does this application make sense & will it improve the experience for your who?

#### color & materials

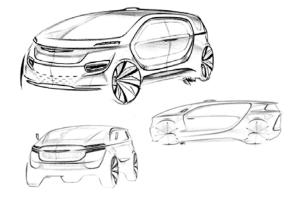
What meanings do we give to colors (ex. red for hot, blue for cold)? How can we use the information that we have about who and new to inspire color & material choices? What are good names for the colors you've chosen? How will the materials you've chosen influence the overall experience of your who?

#### example:





Through research, Portal UX (user experience) designers learned about the challenges young adults face as their lives change rapidly from one stage to the next. For example, a user could go from being single and thriving on nightlife to married with a young family in only five years. This realization, combined with future technology, drove the design of the vehicle.



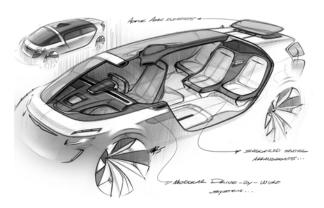
#### exterior design

Exterior designers applied UX insights to their sketches. They gave the vehicle its rounded, family-friendly form, as well as its signature Portal doors which open away from each other to create a single large entry. This feature maximizes the flexibility of the vehicle for its users.

Interior designers maximized flexibility in Portal's interior by designing

a reconfigurable seating pattern. This way the vehicle can move family,

#### interior design





move belongings, or function as an open space to spend time.

#### color & materials

Designers wanted Portal to feel like a living room on wheels. Light neutrals turn the space into a blank canvas, awaiting the user's personalization, and heathered grays (like a favorite sweatshirt) add comfort to the space. lizes the vehicle's electrification





neutral,  $\mathcal{J}$  ( blank canvas heathered, cozy



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