

Jamie Harrison Year 9 Design Technology

Designing for the future

Task 2 - What I would like in my future home

- 3 Bedrooms (All on 2nd floor)
- 3 Bathrooms (2 on the 2nd floor)
- 2 Living Rooms (1 on each floor)
- An office/Library (1st floor)
- Home cinema (1st floor)
- 2 Car Garage (1st floor)
- Kitchen (1st floor)
- Laundry room (1st floor)

Task 3 - How I am going to make my home environmentally friendly

I will make my home environmentally friendly by using devices and products that are better for the environment. In my garage, I will have a charging station for an electric car. The kitchen and laundry room will have eco-friendly low power consumption appliances such as dishwashers and washing machines. In the toilets, I will have skylights as well as many windows to allow natural light, and the lights I do have will be LEDs so they will not burst easily and only consume a little bit of electricity. The house will be well insulated and have underfloor heating, the windows will mean it is cool in the summer but it will have double glazing to keep the heat in. The house will also have solar panels covering the roof so I can live off my own electricity and even charge my car with it. The toilets and bath will use water from a natural well and I will have a rainwater tank outside so I can use less water.

Task 4 - Designing homes for others

Task 4

Write a list of what each person on the right would need if you were designing a house and garden for them.

For example how could Melanie access her sporting interests while at home?

How could you make it safe for Geordi to play in the garden?

How could you assist Bob when he manoeuvres around his house?

What might Luigi need to help him with his school work?

How could Pat grow her flowers, herbs and vegetables?

These are the seven people who you are designing this house for:

- **Geordi** is a 7 year old girl who has a low vision disability and can't see clearly therefore needs lots of sensory input like sound and texture.
- **Luigi** is a 13 year old boy who enjoys school work and reading but also likes to play on his games console. He also enjoys going out on his bike.
- **Melanie** is an 18 year old girl who is very sporty and loves running, swimming and playing tennis.
- **Daisy** is a 46 year old woman who wants to start keeping 6 chickens and 4 ducks so she can give free range eggs to everyone.
- **Lewis** is a 45 year old man who owns a collection of 4 classic cars and loves honey.
- **Bob** is a 68 year old man and he is wheelchair bound and cannot access upstairs or up any steps.
- **Pat** is a 66 year old woman who loves gardening and growing things outside.

Geordie - speakers throughout the house as well as textured walls to play music and let her explore. You could put in Alexa devices so that she could ask it questions and control music and turn things on and off. Also, floor lights may help her as if she has some vision. It could help guide her through the hallways. Smart lighting that

turns off as she leaves the room and a sensor for the bath and toilet for automatic flushing and to prevent the bath overflowing and making sure it is the correct temperature.

Luigi- Luigi Could benefit from an office to do his schoolwork with a big desk and a computer with a big screen to help him do his homework. In his room, he could have a projector connected to an Xbox so he can game and watch films with his friends. And he could have his own bike shed to keep his bike and the extra tires and pumps.

Melanie- Melanie loves sports, but she will need lots of room to store all of her gear and bags, so she should have a walk-in cupboard for all of her different outfits and shoes as well as tennis rackets. Also, a big garden with a tennis court and a swimming pool would be good too to allow her to practice at home.

Daisy - Daisy wants to keep chickens and ducks free-range, so she would need a big back garden with plenty of space for the animals. For the chickens, a large shed with nesting boxes inside and a cordoned off fence to allow for the chickens to come and go as they please would be good. A large pond would also be good for the ducks with a little shed for them to go in when it gets too cold and also so they can lay eggs. An extension on the back of the house would also help as she could box up the eggs and clean them off, even print off labels and packaging for delivery.

Lewis - Lewis would benefit from a large garage and big drive so that he can store his classic cars. They need a lot of work doing to them so he will need a big workbench and tool rack to store all of his tools, also shelves for the parts, and even space for a pressure washer so he can keep them clean. He could have a large back garden where he could keep beehives in an Apiary. He could have a shed where he keeps all of the equipment such as the suit and even a palace to store all of the honey and wax to be jarred.

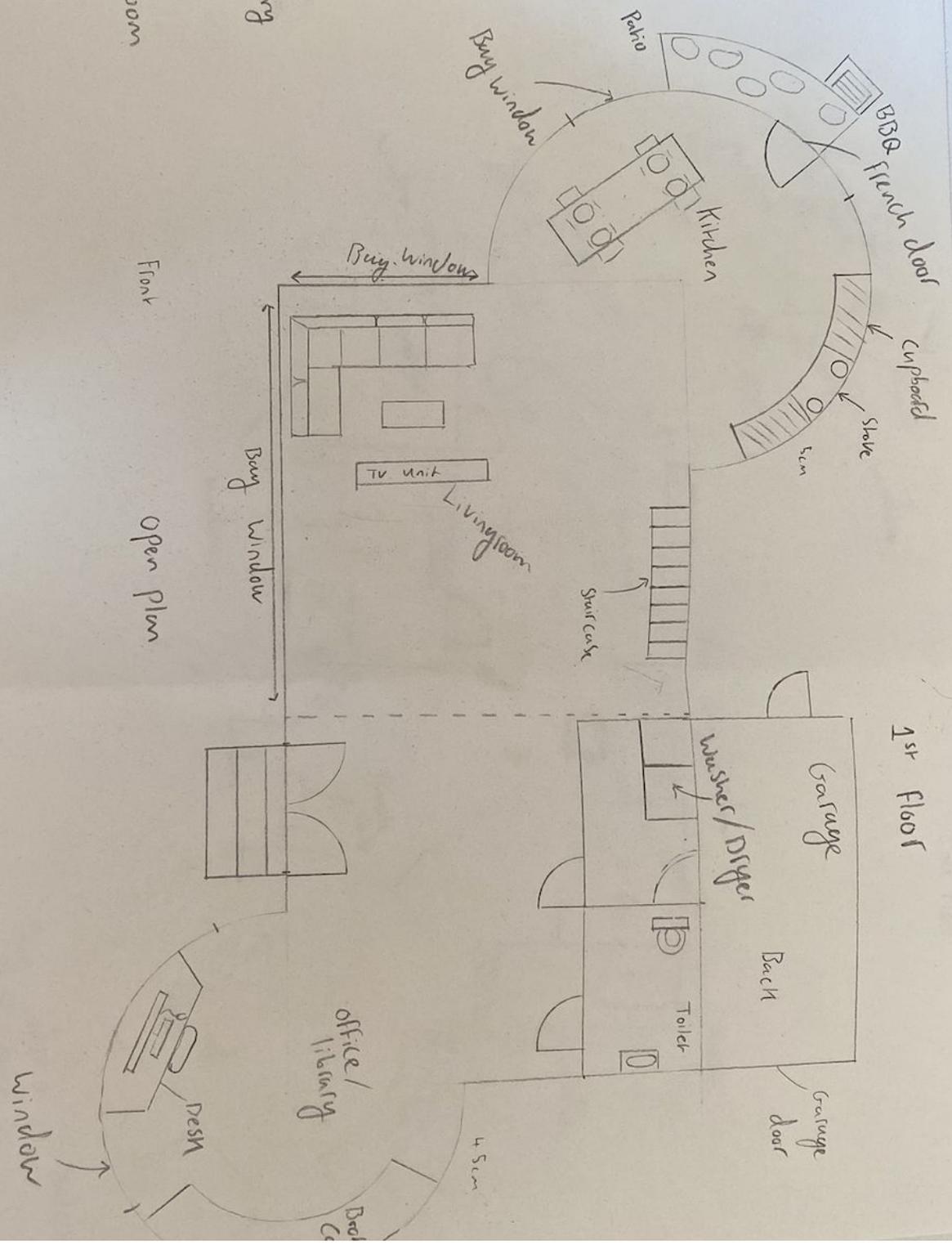
Bob - Bob would need a bungalow so everything is on one floor. He could have a specialised kitchen with low countertops so that he could make himself meals. A large wet room to help him go to the toilet and shower, with handles and a seat in the shower. Also, a large carport so that he can get in and out of his specialised car.

Pat - Pat would need a big garden to allow her to grow all of her plants. She could have her own allotment to grow fruits and vegetables, and a small polytunnel to act as a nursery. She would also need a big shed to store flower pots and compost and other things. And a sprinkler system could help her water everything.

Garden

In the back garden, I have placed a large pond with a water feature as this can be calming and will attract wildlife and sustain a nice viewing area. There is also a BBQ and patio area just off the kitchen for summer BBQs. There is a large shed for all gardening equipment and lawnmowers etc. Large lavender patches are good for Bees and pollinating insects, and lavender has been proven to reduce anxiety. There is a large hot tub for gatherings in the top left-hand side, perfect for summer. And finally a small greenhouse for small plants and strawberry and tomato vines.

living room
office/library
kitchen
boiler
laundry room



2nd Floor

bedrooms
Bathrooms
home cinema

