*Why will Current Clover help you ?*

Move heavy loads from class to class

* Easier to use normal cart
* More for show

Act as school mascot

* Demonstrate to parents/investors the schools push towards stem

Exposure to Robotics

* Real life example of robotics
* Displays good/bad sides and abilities/downfalls of tech

In Classroom

* Engage a smaller group in a maths game/chatting, if they finish an activity
* Fun intro to stem for younger kids (Simon says, follow the leader)
* Huge potential for in depth lessons as kids get older

*Possible Features to Add*

Attendance

* RFID or QR
* Possibility to message parents
* Audio check whose absent and chance to override before final
* Very useful, not too much effort

Projector

* Slight body change needed
* Good for zen instructors, not teachers
* Additional parts, bulkier body, necessary ?

Autonomous Navigation

* Simultaneous Mapping and Localisation (SLAM) using 360 LiDar (Light Detection and Ranging) running on ROS2 (robot operating system), with a simulated classroom environment using Gazebo, with RFID student localisation and live collision avoidance.
* Cutting Edge tech, would define USP
* More display of tech than usability for effort.
* Very high effort, not massive increase in usability, robot could navigate to selected student, useful at times but not an amazing feature when considering shear usefulness.
* Main reason for development is to demonstrate tech, teach to older kids, create unique place in market, would justify massive price increase with cost only increasing in development (parts relatively cheap.)
* Maybe consider once V1 is deployed and making profit to give resources for development.

Line Following

* Hard Code the map into the cobot for an individual school
* Tape necessary on school floor
* LiDar for object avoidance needed
* Emergency stop, cliff sensor, override, useful ?

Tray for handouts

* Teacher could stay sitting
* RC needed
* Again most likely not ‘helpful’ until autonomous

Curriculum Integration

* Make separate app about curriculum
* Specific or general ?

Possible games

* Capitals
* Spelling