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|  | **UPS Package Delivery Challenge Rubric** |

You will have 5 days to plan, build, test, and redesign a device that must deliver at least 5 3D printed packages to a research facility precariously built in the middle of an active volcano. The ring of lava is 2 meters in width, and no part of any teammates body may cross the lava line. A 5 package deduction in your final score will be given for each instance of a body part crossing the lava line. This project will culminate in a Grand Deliver Off where each team tries to deliver as many packages as possible in 1 minute. You will have a $10,000 budget (fake tender) to build your device. You must buy your materials from the class store; prices are listed below…

PVC Pipe = $2,000 for 3 feet

Cardboard = $500 for 40 cubic cm

Popsicle Stick =$200

Duct tape = $500 for 0.5 meters

Hot Glue Stick = $500

3D Printed Part = $100 for each 3 cubic cm of filament used

Bring your own part = $1000

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| **UPS Package Delivery Challenge Scoring Rubric** |
| Student completes at least 3 design sheets during the project. | \_\_\_\_\_ / 20 points |
| Student delivers at least 5 packages to the research facility. | \_\_\_\_\_/ 20 points |
| Student uses appropriate safety practices while working in the lab to build their car. | \_\_\_\_\_/ 10 points |
| Student thoroughly completes the UPS Package Delivery Challenge Reflection page. | \_\_\_\_\_/ 40 points |
| Student is highly rated by their teammate on the UPS Package Delivery Challenge Peer Review. | \_\_\_\_\_/10 points |

 **Total \_\_\_\_\_/ 100 points**