Design Challenge Teacher Guide

**Class level**: Grade 9

**Time**: 3 weeks

**Credit**: 2 (or 3?) learning guides or one “unit” of credit in each subject

**Suggested Evaluation**: *curricular content*, *process,* *final project*

**SCHEDULE:**

1st class (F1 Apr 3): overview introduction by TL (PPTX) and teachers in library, 4 choices given, students get a chance to choose their topic and sign up \*\*teachers assign groups after

2nd class (B1 Apr 4): question period for clarification in the library, 2nd intro summary, go over each of the four topics again and teachers offer advice on each part (math will fit in how? What mini lessons may be helpful along the way (how to present, citations, scale model building and stats, etc.)), time to share prior knowledge of the topics/issues by holding up erasable boards/paper after short thinking time in small random groups for each topic in chronological order), give out research organizers, time to read assigned article for topic you chose

3rd class (F1 Apr 5): move to individual classroom groups by topic – will not be “your” class as groups may be intermixed so will be split amongst teachers, empathy perspective where students re-read or read together their article, have to dig deep to figure out whose voice is not heard, who is most affected, what is the personal factor in this issue, create/collect summary sheet with collected thoughts, give out research organizers if not got already

4th class (B1 Apr 6): all in library for TL quick 10 minute address on bibliography reminders referring to inquiry sheet, explain inquiry sheet 2, reminder of consideration given to where math fits in, inquiry sheet beginning to fill in \*each student starts individual inquiry sheet with different sources – can move to classrooms if want

5th to 9th class (B/F2Apr 9-13): research time, inquiry sheet 1 continues and inquiry 2 started, draft submission of ideas and list of needs for design/project

10th class (B3 Apr 16): how to do a presentation, rubric and expectations, start creating

11th to 13th (B/F3 Apr 17-19): hand in both research sheets, final sheet and design phase – create!

14th / 15th (B/F 4 Apr 23-24): 5 min presentation sharing of design/project to entire group, final evaluation sheet handed in