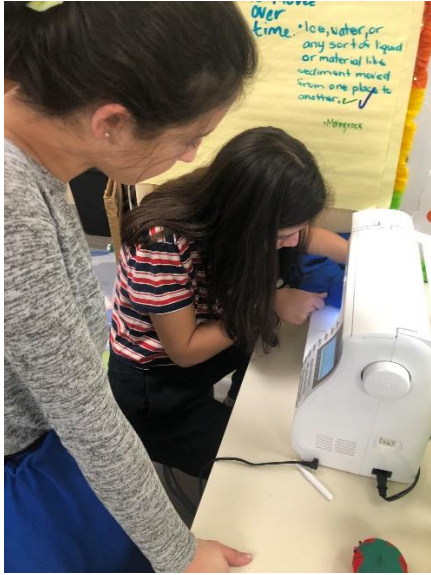


In Space, Neighbor is a Relative Term

An eighth grade inquiry project



Driving Question: How can we, as student explorers, inspire the public on the future of space exploration by creating a learning experience?

The Big Picture...

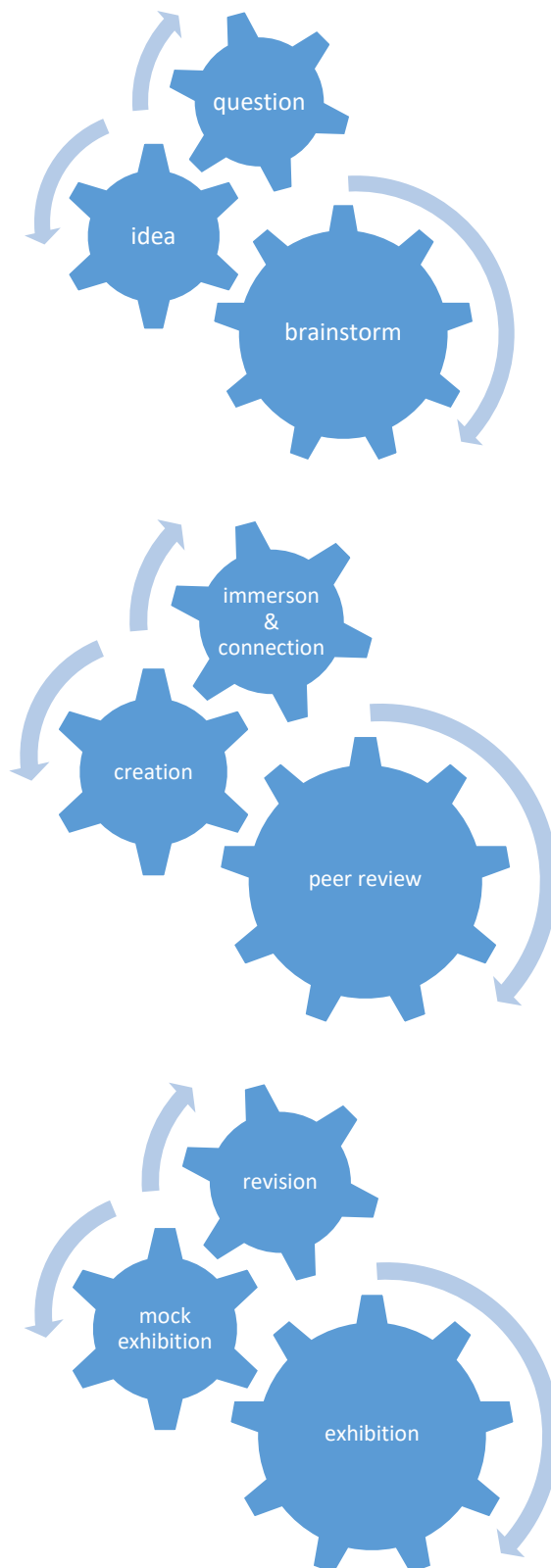
It's easy to think of neighbors as the person who lives next door to you; across the street from you or down the block from you. We thought a little more outside the box. Sometimes your neighbor is 239,000 miles away or 140 million miles away.

Eighth grade science standards involve a study of space and there are many space-loving students at TCSMS judging from the amount of space-related apparel that we see kids wear.

So, for our inquiry project, we wanted to explore our neighbors that were only close in the relative term of space!

We started with a mock-up design challenge that got the students thinking about how humans would survive on Mars. We began asking questions and then finding experts - like JPL engineer Debarati Das and Jenoptik president Jay Kumler - to help us further our knowledge and guide our work.

The Process...



Science

SC.8.E.5.1
 SC.8.E.5.2
 SC.8.E.5.3
 SC.8.E.5.4
 SC.8.E.5.5
 SC.8.E.5.6
 SC.8.E.5.7
 SC.8.E.5.8
 SC.8.E.5.9
 SC.8.E.5.10
 SC.8.E.5.11
 SC.8.E.5.12

Language Arts

LAFS.8.RI.1.2
 LAFS.8.RI.1.3
 LAFS.8.RI.2.4
 LAFS.8.RI.2.5
 LAFS.8.L.1.1
 LAFS.8.L.1.2
 LAFS.8.L.2.3
 LAFS.8.L.3.4
 LAFS.8.L.3.5
 LAFS.8.SL.1.1
 LAFS.8.SL.1.2
 LAFS.8.SL.1.3
 LAFS.8.SL.2.4
 LAFS.8.SL.2.5
 LAFS.8.SL.2.6
 LAFS.8.W.1.2
 LAFS.8.W.1.3
 LAFS.8.W.2.4
 LAFS.8.W.2.5
 LAFS.8.W.2.6
 LAFS.8.W.3.7
 LAFS.8.W.3.8
 LAFS.8.W.3.9
 LAFS.8.W.4.10

CTE

ATC.68.VISUAL.10.03
 AATC.68.VISUAL.10.04
 AATC.68.VISUAL.10.05
 AATC.68.VISUAL.11.01
 AATC.68.VISUAL.11.02
 AATC.68.VISUAL.11.03
 AATC.68.VISUAL.11.04
 AC.68.CONSTR.04.01
 TED.68.AERTEC.01.01
 TED.68.AERTEC.03.04
 TED.68.AERTEC.03.05
 TED.68.AERTEC.03.06
 TED.68.AERTEC.04.01
 TED.68.AERTEC.04.02
 TED.68.AERTEC.04.03
 TED.68.AERTEC.04.04
 MKT.68.GENRL.01.07
 HOSP.68.GENRL.01.07

Visual Arts

VA.68.C.1.1
 VA.68.C.1.2
 VA.68.C.1.3
 VA.68.C.2.1
 VA.68.C.2.2
 VA.68.C.2.3
 VA.68.C.2.4