Team:	YOUR TEAM NAME HERE	
Hour 6	Replace this cell with "Yes" or "No" to let us know if you used the internet.	

You + Me = Sry. Math 2 Hard 4 Me.

Find your self-respect now. Don't dumb yourselves down. Think of yourself as capable and worthy of finding a guy who is going to respect you, too. It's so important, I mean, and the confidence you get from feeling smart and tackling something like mathematics, which is a challenge, right? Math is hard." - Danica McKellar

Winter Study is a time for relaxing and forgetting all that you have learned in your past life (read: Fall Semester). But some things never go away. Mathematics permeates all that we do and all that which we observe. So join us on a journey towards greater enlightenment as we add up the factors of our life to determine the true meaning of this world. Oh, and in honor of Winter Study, we definitely end with some trashy Rom Coms, no worries!

I. Lay Tangent to My Curves ;)

	Match the geometric figure to its name. (e.g. find the letter on the accompanying sheet and match it to the correct geometric figure by writing the letter after the figure name.) The figure pictures can be found on the accompanying question sheet.	
	Figure Name	**Answer**
1	Hyperbolic Paraboloid	D
2	Catenary	B
3	Brachistochrone	J
4	Cycloid	F
5	Parallelepiped	E
6	Icosahedron	A
7	Torus	K
8	Solenoid	H
9	Mobius Strip	I
10	Trefoil Knot	C
11	Square	G

II. We're a Perfect Fit... Theoretically

	Match each theorem to its statement (e.g. find the letter on the accompanying sheet and match it to the correct equation writing the letter after the theory name)	
	Theorem	
12	Fundamental Theorem of Calculus	C
13	Fundamental Theorem of Algebra	G

14	Taylor's Theorem	B
15	Stoke's Theorem	E
16	Spectral Theorem	I
17	Euler's Theorem	F
18	Godel's Incompleteness Theorem	H
19	Abel's Theorem	A
20	Ham Sandwich Theorem	D

III. Picture This!

Match the pictures of the physicist with their name and his/her Nobel-worthy achieve (e.g. find the correct picture and achievement and write down the appropriate letter in the appropriate columns). Achievements can be used more than once.

	Physicist	Picture	Reason for Nobel Prize
21	Albert Einstein	L	L
22	Marie Curie	K	I
23	Gustav Hertz	P	K
24	C.V. Raman	F	O
25	Wolfgang Pauli	N	A
26	Paul Dirac	J	G
27	Wolfgang Ketterle	M	P
28	Niels Bohr	D	M
29	Hendrik Antoon Lorentz	G	N
30	Richard Feynman	O	E
31	Edward Mills Purcell	E	J
32	Peter Higgs	C	H
33	Max Planck	A	F
34	Wilhelm Röntgen	B	D
35	Max Born	I	C
36	Erwin Schrödinger	H	G
37	Enrico Fermi	Q	B

IV. 1+1=2 ;)

Fill out the missing information in this table about Romantic Comedies (films and TV shows) (Questions 38-81)							
Title	**Lead Romantic Actor**	**Lead Romantic Actress**	**Male Character**	**Female Character**	**Release date (Year)**	**City In Which It Takes Place**	**Female Lead's Profession/Career**
Sleepless in Seattle	Tom Hanks	Meg Ryan	Sam Baldwin	Annie Reed	1993	Seattle	Journalist
The Mindy Project	Chris Messina	Mindy Kaling	Danny Castellano	Mindy Lahiri	2012	New York	doctor (OB/GYN)
Bridget Jones's Diary	Colin Firth	Renée Zellweger	Mark Darcy	Bridget Jones	2001	London	TV journalist
You've Got Mail	Tom Hanks	Meg Ryan	Joe Fox	Kathleen Kelly	1998	New York	Owns a Children's Bookstore
Notting Hill	Hugh Grant	Julia Roberts	William Thacker	Anna Scott	1999	London	Hollywood Actress
Four Weddings and a Funeral	Hugh Grant	Andie MacDowell	Charles	Carrie	1994	London	We Never Know
Sliding Doors	John Hannah	Gwyneth Paltrow	James	Helen	1998	London	Public Relations (Half points for "In advertising" or "food delivery"
27 Dresses	James Marsden	Katherine Heigl	Kevin/Malcolm Doyle	Jane	2008	New York	office assistant
Maid in Manhattan	Ralp Fiennes	Jennifer Lopez	Chris Marshall	Marissa Ventura	2002	New York	hotel maid
The Wedding Planner	Matthew McConaughey	Jennifer Lopez	Steve Edison	Mary Fiore	2001	San Francisco	Wedding Planner
13 Going on 30	Mark Ruffalo	Jennifer Garner	Matty Flamhaff	Jenna Rink	2004	New York	Middle School Student/Works at a Fashion Magazine
When Harry Met Sally	Billy Crystal	Meg Ryan	Harry Burns	Sally Albright	1989	New York	Journalist
Roman Holiday	Gregory Peck	Audrey Hepburn	Joe Bradley	Princess Ann	1953	Rome	Princess of Hungaray
Sabrina	Humphrey Bogart	Audrey Hepburn	Linus Larrabee	Sabrina Fairchild	1954	New York	Unemployed/ Studying to be a Chef
Groundhog Day	Bill Murray	Andie MacDowell	Phil Connors	Rita	1993	Punxsatawney, PA	TV News Producer