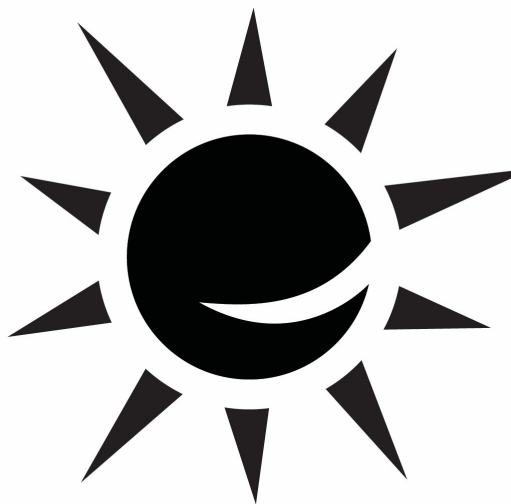




“At TDI my daughter met a group of peers and mentors who value her for who she is . . . and who she might become.”

*(Parent)*



**TDI**vermont.org

## **TALENT DEVELOPMENT INSTITUTE**

*Summer camp meets academic institute*

**TWO WEEKS of  
TDI Summer Camp 2019!**

**June 23-29, 2019 and/or  
June 30-July 6, 2019**

**Northern Vermont University—Johnson  
(formerly Johnson State College)  
Johnson, Vermont**

**For students entering grades 4-9**

**Overnight and Commuter Options**

***The Green Mountain Center for Gifted Education, the parent organization of the Talent Development Institute, is a 501(c)3 registered non-profit whose mission is affirming, educating, and supporting gifted youth and their families. The organization was created in 2003 to fulfill the need of Vermont gifted children to have educational experiences that affirm who they are intellectually, socially, emotionally and creatively. Please see our website at [TDIVermont.org](http://TDIVermont.org).***



# TALENT DEVELOPMENT INSTITUTE (TDI Summer Camp) 2019

Sunday, June 23, through Saturday, June 29, 2019 and/or  
Sunday, June 30 through Saturday, July 6, 2019

---

This year we are celebrating our **twenty-second year** of the Talent Development Institute at Northern Vermont University, formerly Johnson State College. For each of the two weeks, we'll arrive on Sunday, get settled in, enjoy five days of strands (classes) and fun activities, and finish with a final program and good-bye (for those heading home) on Saturday. Overnight campers attending both weeks will have the option of going home the Saturday night between sessions or joining us (see Tuition Form for fee) for the Saturday overnight between sessions.

TDI participants will experience fun, stimulating, and challenging learning opportunities with dynamic faculty and intellectual peers. Students entering grades 4–9 will participate in week-long classes, daily exploratory activities, and (for resident campers) evening entertainment, activities, and exercise – including use of the college pool.

## Features

Both weeks' schedule formats will be similar to each other and to that of last year's TDI. We have a great mix of classes this year, with something for a variety of types of learners and thinkers! New offerings include: DIY Spa Day, Linguistic Archeology, TDI on Broadway, Tinkering, Fun Stuff with Videos, Model Roman Senate, Collaborative Storytelling, and TDI Menagerie. There is enough variety of offerings between the two weeks for a camper to thoroughly enjoy attending both weeks.

A big part of the TDI community is the Leadership Program, for students entering grades 10-12 who have previously been TDI participants. This program will again span three years. The first year participants will be part camper/part leader. They will meet for Leadership activities in the mornings, and will choose from classes for campers in the afternoons. For more information, see our website at [www.tdivermont.org](http://www.tdivermont.org) or contact Lucy Bogue at [lucy@tdivermont.org](mailto:lucy@tdivermont.org).

## The Program

TDI may be experienced as a commuter or as an overnight camper. Students engage in a variety of unique strands (classes) that nurture the students' common love of learning. Staff at TDI are skilled at fostering students' current passions and sparking their interest in new passions.

While we strive to give students the academic challenge and stimulation they crave, we are not an intense academic program. We encourage hands-on, creative, and meaningful learning. At the same time, we create an accepting environment with a multitude of opportunities for fun and friendship.

Overnight campers are supervised by Institute staff, with housing in the college dormitories. Dinner is at 5:30

each evening, followed by evening activities at 6:30 p.m. We are asking overnight campers to arrive

between 2 and 4 on June 23 and/or June 30. Supper will be provided each Sunday.

Check-in for commuters will begin at 8:00 each morning. Monday morning will begin with a brief opening session for everyone at 8:15, with classes starting at 8:30. Lunch is provided Monday through Friday for all participants at 11:45. After lunch and a short rest time, the two afternoon classes begin at 1 pm. During our break at 2:30 we will have our daily meeting and sign up for a guided exploratory class that will meet after our last class period, from 4:30-5:30 in the afternoon. ***Commuter pick-up is at 5:30 p.m. each weekday, the same as last year.***

Students will be assigned to strands based on the choices sent in with their registration forms. These strands run from Monday through Friday, with a final program for parents, staff and campers on Saturday morning. Our Saturday morning program, which usually starts at 10:00, is designed to share the weeks' activities with parents. After the program, parents of overnight campers who are not spending Saturday night between sessions will go with their children to the dorms, pack up, return keys, sign out, and head home.

Special Note: For overnight participants, the Talent Show will be held each Friday evening; please be sure to bring your instruments, costumes, magic tricks, or whatever else you might need if you choose to participate.

## The Location

Nestled on a hill in the heart of the Green Mountains, Northern Vermont University (formerly Johnson State

College) campus offers a spectacular natural environment, along with modern educational facilities. The Institute is held in classrooms, lecture halls, computer laboratories, dorms, and cafeteria on campus. We also have set times that we have exclusive use of the college pool at the Shape Facility. The campus is beautiful, small and manageable, with up-to-date facilities—an ideal setting for TDI.

The address for Northern Vermont University-Johnson is 337 College Hill Road, Johnson, Vermont, 05656. The campus is just off Vermont Route 15 in Johnson. North and south routes take Interstate 89 to exit 10. Head north on Vermont Route 100 approximately 18 miles until it merges with Route 15 in Morrisville. Head west on Route 15 approximately 8 miles to Johnson. Watch for signs on the right directing you to the campus.

### **The Faculty**

TDI is staffed partly by experienced Vermont educators, some with Master's degrees in educating the gifted; partly by experts in their fields; and partly by Institute alumni (gifted learners themselves, some old enough now to also be experts in their fields!). Classes have low student-to-teacher ratio, averaging 10 to 12 students per class.

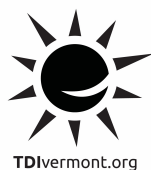
### **Questions and Further Information**

Please contact TDI Co-Director, Lucy Gage Bogue, at [lucy@tdivermont.org](mailto:lucy@tdivermont.org) with questions and requests. Student classes fill quickly; each class is filled (for the most part) on a first-come, first-served basis.

### **YOU CAN HELP US REACH FAMILIES IN NEED OF TDI BY SHARING THIS BROCHURE:**

- WITH OTHER FAMILIES,
- WITH YOUR FRONT PORCH FORUM NETWORK,
- AND
- WITH YOUR CHILD'S SCHOOL.

**HAVE YOUR CHILD BRING A FRIEND!**



# TALENT DEVELOPMENT INSTITUTE

## TDI Summer Camp 2019

### REGISTRATION INFORMATION

Registration is online this year. Go to [tdivermont.org](http://tdivermont.org) for link.

---

Registration for both weeks of TDI is due by June 1, 2019 (\$30 late fee applies after this date). This year we also have an Early Bird Discount if you register by April 10<sup>th</sup>, a discount for Week 2, a further discount for the second week if registered for both weeks (see Camper Tuition Information on following page), and a discount for multiple children from one family attending.

**Scholarship deadline is May 1, 2019 for either or both weeks of TDI.** We have a limited amount of partial scholarship money available, and encourage you to seek additional scholarship sources from your child's school, your town, local community groups and/or businesses, and national organizations. Please let us know if you have had success with this, so we can pass ideas on to other potential participants.

**All students must fill out all information pertaining to:**

- Registration/Tuition, Health and Personal Information, Strand Choices

**All students must pay the following at time of online registration:**

- If not applying for scholarship or payment plan, we require full payment by credit card or bank check
- If requesting payment plan, be sure to fill out that part of the tuition form online
- If requesting scholarship, pay \$100 deposit per TDI week, and you must upload the following:
  - letter requesting scholarship,
  - letter from child about why he/she wants to attend TDI, and
  - the first page of your family's latest tax return, which shows your family's income and lists your child as a dependent.

We do not require any formal testing as proof of giftedness; our process of asking the student, parent, and teacher for written narrative in support of a child's participation has worked well for us for many years. **A first-time applicant must also upload the following in order to be considered for the Institute:**

- a letter written by the participant describing how the TDI experience will benefit him or her;
- a letter from a teacher (and, if the child is home schooling, preferably from another adult working with the child) describing his/her ability to succeed in a stimulating and challenging learning environment. If this seems like it might take a while, upload everything else, and upload the teacher recommendation as soon as possible;
- a letter from a parent/guardian describing why he/she thinks the Talent Development Institute is a good match for the child; if you are applying for a scholarship, this letter could also be the one to explain your need for financial assistance.



## TDI 2019 Camper Tuition Information

The deadline for TDI registration is June 8, 2019, though a late fee of \$30 applies after June 1st. All tuition payments should be made during online registration (go to [tdivermont.org](http://tdivermont.org)) using credit card or bank check. Full payment is required at time of registration, unless you are requesting a scholarship and/or payment plan, in which case a \$100 deposit per week is required at time of registration.

There will be a limited number of partial scholarships, generally ranging from \$100-350, available to TDI participants. Requests for scholarships are due May 1, 2019, and require that you upload a letter of request which explains your family's need and why you want your child to come to TDI, as well a letter from your child explaining his/her motivation for coming to TDI. It is also a requirement that you scan and upload a copy of the first page of your latest tax return which shows your family's income, and that your child is a dependent.

Description of Choices	Early Bird	Regular	Late
	before April 10	April 10- June 1	After June 1
<b>Overnight</b>			
Week One only (June 23-29, 2019)	1135	1160	1190
Week Two only (June 30-July 6, 2019) discounted	1115	1140	1170
Week Two Added to Week One (discounted further)	1095	1120	1150
Saturday Overnight Between Weeks (June 29)	120	130	140
<b>Commuter</b>			
Week One only (June 23-29, 2019)	770	795	825
Week Two only (June 30-July 6, 2019) discounted	750	775	805
Week Two Added to Week One (discounted further)	730	755	785

\*\*\*Register before April 10th and get our Early Bird Discount! We are also offering Week 2 at a discounted price, and there will be a discount this year if you have multiple children attending TDI.

# **DESCRIPTIONS**

## **TDI 2019 Morning Strands Week One—June 23-29**

Please make first, second and third choice classes for each time period each week when you go to [www.tdivermont.org](http://www.tdivermont.org) and click on the link to register online. PLEASE NOTE GRADE LEVELS FOR EACH CLASS.

### **Week One Strands—8:30–10:00 AM**

#### *Escape! Again!*—Grades 4-9

*Bill Pinney*

Do you like writing or solving puzzles? Do you like acting, writing, or making art? Do you like scavenger hunts, puzzle hunts, or escape the rooms? In “Escape!” our goal will be to analyze the parts and pieces that go into making a fun and functional escape the room. We will then put this knowledge to the test by constructing our very own escape the room right at TDI! We will develop stories, write and solve puzzles, create characters, and make thematic designs all in order to produce the coolest puzzle extravaganza of TDI history. Whether you're a puzzler, planner, actor, writer, artist, or just want to come have fun, this is a strand for you.

#### *Who Bumped Off Bentley Meets CSI*—Gr 4-9

*Stephen and Johannes Everse*

Who stole the priceless Green Ping Pong Ball? You will collect and evaluate a series of clues, slowly eliminating suspects until you find the culprit. You will learn to compare fingerprints and blood (we will use animal blood to avoid issues of diseases), read invisible ink, identify liquids, analyze DNA, and use the science of density/weight and other topics to discover who stole the infamous Green Ping Pong Ball.

#### *What's My Line?*—Grades 4-9

*Max Kriff, Will Frick, Adam Browe, Colin Spencer*

Are you interested in video editing? Sound design? Making TDI Staff look even more ridiculous than they already do? In What's My Line, you'll put together short video clips of your favorite TDI staff members—but there's a catch. The audio is all missing, and you'll have to make it yourself. Write and record voiceovers, use sound effects, or even create your own. Put your voice over the clips of the staff to create a story of comedy or tragedy (or both!).

#### *History Comes Alive!*—Grades 4-9

*Sierra Makaris*

You're about to ford the river when you see them: storm clouds overhead. Do you hunker down and wait

out the rain, knowing that thieves might come by night, or do you ford the river despite its rising tides? What would a typical traveler do – and what would you do? In History Comes Alive!, we'll apply our 21st-century knowledge to the problems of the past, while doing our best to immerse ourselves in a world without modern resources. We'll tour the globe from Venice to Venezuela and watch civilization spring up before our very eyes – but this time, we'll have a say in it. Great strand for you if you love history, improv theater, or thinking quickly on your feet.

#### *Photo-journal Life at TDI*—Grades 4-9

*Ashley Stout*

Tell the story of what it's like to be a student at TDI through photography. Learn tips and techniques to further your photography skills in composition, lighting and more. Bring your own digital camera (camera phones count!) or borrow one of ours. You don't need fancy equipment to take great photos!

#### *Dragonology*—Grades 4-9

*Mary Markley*

Become a dragon master! Learn the secrets and history of dragon legends from around the world, delve into the lore of precious gemstones, and explore the magic of flight and flame. You'll learn to write in dragon rune script, and solve riddles passed down through the ages. Most importantly, you'll create your own dragon species and create medieval manuscripts detailing your dragon's story, as well as its habitat, diet, and appearance. Is it related to a dragon from a book or myth you know? Is it native to the woods of Vermont? Come explore the world of dragons in this strand!

### **Week One Strands—10:15-11:45 AM**

#### *Hidden Worlds*—Grades 4-9

*Alice Russell*

Explore the world of fairy tales, urban legends, and myths in this strand! We will use arts, crafts, and writing to learn about the unseen worlds around us.

#### *Lights! Camera! TDI!*

*Adam Browe*

Lights, camera, action! In this stand you will learn the essentials of what makes a good short film, from story development to editing and everything in between. In small groups you will make your own short films that will be shown at the end of the week.

#### *Websites for Business and Fun*—Grades 4-9

*Ashley Stout*

Have you ever wanted to create a professional-looking website for your own small business or for fun? With some diligent work, first-time users will learn how to use the website builder, Weebly, to create a great-looking website in one week! (Students will need to

have parent permission to create a Weebly site and publish it on the internet.)

*Primordial: Mutate and Survive—Grades 4-9*  
*Jameson Hurd*

Darwin once posited that life likely began in a warm, shallow pool - this class will zoom in on that promethean environment, and ask campers to survive the perils of early Earth! The classroom will serve as the habitat, and the campers will each control a species of 'microbe' trying to navigate and mutate in order to survive. The 'available' mutations for each day will be presented through a short lesson about what we know of Earth's early history, and what archaeological evidence remains. As the week progresses, we will move toward the future, following the evolutionary path made by early life on our planet. New challenges and dangers will come every day - from sudden fluctuations in habitat temperature, to competition for resources and invasive species. You will use what you've learned to build a better microbe, more equipped to survive in our simulation.

*TDI on Broadway!—Grades 4-9*  
*Max Kriff, Cam Tagatac*

Has there ever been a moment where you wanted to be part of something spectacular? Possibly theatrical? In this strand you will be putting on a production of your very own play! Starting from writing the script, to performing as an actor, or maybe handling the sound queues or set management. Broadway is calling you! Will you answer?

*Quidditch—Please Note: Grades 5-9*  
*Grady Farnum Rendino*

Until science brings us the magic of broom-bound flight, we'll make do with the version of this crazy game that doesn't defy gravity. (If you're new to the concept, imagine basketball mixed with dodgeball, then add just a pinch of tag. Fast-paced fun, all while riding a broomstick!) We'll spend a little time inside, talking strategy—and quite a lot more outside, on the pitch. No wands necessary, but being spellbound is guaranteed!

## **TDI 2019 Afternoon Strands Week One—June 23-29**

**Please make first, second and third choice classes for each time period each week when you go to [www.tdivermont.org](http://www.tdivermont.org) and click on the link to register online. PLEASE NOTE GRADE LEVELS FOR EACH CLASS.**

<b>Week One Strands— 1:00 – 2:30 PM</b>
---

*TDI Quilt—Grades 4-10*  
*Jojo Williams-Keane*

We will work together as a class in order to create a quilt of memories to celebrate our TDI. Throughout the

week we will think of and write down stories and memories of TDI, create storyboards, draw images, cut and sew fabric, and incorporate all of this into a tangible object for all to see when they come to TDI for years after.

*Not So Plain Planes—Grades 4-10*  
*Johannes and Stephen Everse*

This continental plane has gotten into the bad habit of making plain paper airplanes, and it really is just a pain. This strand is an attempt to fix that 'air-or' by making THE PERFECT paper AIRPLANETM© (patent pending). Join your fellow aspiring aeronauts on a trip that ventures from engineering to origami, wind tunnels to bone creases, physics to cringing at my bad puns, on the hunt for perfection in hand-flung paper.

*Board Game Design—Grades 4-10*  
*Will Frick*

Some people say board games have gone the way of the dodo, but you might be surprised how intricate they really are. In this strand, we'll explore the ideas of luck, skill, timing, secrecy, and (of course) just plain fun, and then use them to make and play brand new games, using only supplies you can find around the house!

*Be Your Own Good Friend—Grades 4-10*  
*Nancy Mildrum*

Together we will explore various mindfulness, yoga and meditation practices that nurture our natural capacities for joy, relaxation, openness, stability and balance in heart and mind.

*Writing and Laughing—Grades 4-10*  
*Susan Flint*

In this strand we're going to write—poems, short stories and more. We are back once again with new writing prompts, new projects, new games, and the same sense of creativity and humor that's kept us going all these years. We'll look at different prompts and styles, and, if you want, you will have the opportunity to share what you have written. Get ready to let your ideas fly!

*Improv!—Please Note: Grades 5-10*  
*Jameson Hurd*

Improvisation is the art of ad-libbing – theater without scripts, scenery, or forethought. Enthusiastic novices are invited to join in as we sharpen our dramatic reflexes with an assortment of favorite improvisational games. Have a blast acting on your toes!

*Gender Studies—Please note: Grades 6-10*  
*Lillian Ilsley-Greene, Cam Tagatac*

Have you ever wondered why most boys have short hair and most girls have long hair? Why boys aren't supposed to like the color pink? Why girls aren't encouraged to play sports? In this strand, we will discuss questions like these, as well as do activities that help us learn why society views girls and boys

differently, where we fit into it all, and what it means to be open-minded. There are no wrong answers.

## **Week One Strands— 2:45 – 4:15 PM**

### *Music-Making—Grades 4-10*

*Colin Spencer*

Ever wanted to make your own music, but can't find band-mates who show up on time? Learn how to use Apple's Garageband software to put together pre-recorded 'loops' and your own recorded sounds to make high-quality songs. You can record piano, guitar— even tennis balls falling into a pot of pudding! We'll also explore the science of sound and play with magnetic tape. Bring your creativity and love of music, and turn it into something you can be proud of!

### *DIY Spa Day—Grades 4-10*

*Susan Flint, Maren Altadonna*

Sometimes TDI can get stressful, exhausting, or just plain hot, and we need a place where we can cool down and relax. Introducing the new TDI Spa! We'll learn how to make facials, lotions, scrubs, you name it, and relax our bodies with meditation and massages. If you need a place to sit down and kick back, then this is the strand for you!

### *Museum of TDI—Grades 4-10*

*Sierra Makaris*

For twenty-two years, the mysterious happenings of TDI Johnson have been closed to the public. Now our doors will open to a curious audience, and we need YOUR help! You'll have one week to build a fully functioning museum that captures the TDI experience. In this strand, we'll combine art, anthropology, and exhibit design to craft a compelling audience experience and take a peek behind the scenes.

### *Cough, Cough, Who's There?—Grades 4-10*

*Bill Pinney*

The world is full of all manner of bugs and germs, some coexist peacefully with us, while others turn our bodies into battle grounds. In this strand we'll explore the strange and fantastic world of pathogens, from bacteria,

to viruses, to fungi. We'll look at how these things make us sick, and what our bodies in turn can do to fight them. We'll learn about infection, antibiotics, and even why we get fevers. Are you ready to explore what's lurking in your cough?

### *The Dungeon Forge—Grades 4-10*

*Jameson Hurd, Grady Farnum Rendino*

It's Dungeons and Dragons, turned inside out! It may be one thing to explore a dungeon, but creating one is quite another. You will take the role of Game Master, and learn how to craft your own levels, challenge your friends, and design an excellent plot twist. Now go take out your staff and wizard hat!

### *Art Extravaganza—Grades 4-10*

*Alice Russell, Lillian Ilsley-Greene*

Painting! Drawing! Writing! Oh my! In this strand we will explore all different types of art, from finding art in nature and the world around us, to sculpting. Each day we will focus on something different, so you will be able to stretch your creative muscles, and maybe even find your next artistic calling.

### *Star Wars AttackTix: Grand Strategy—Please Note: Grades 5-10*

*Will Frick, Max Kriff, and Cam Tagatac*

We will simulate a science fiction military campaign using Star Wars AttackTix figurines. The Galaxy is in disarray; will you and your classmates unify as a team and save the day against Lord Vader? Strategize with your army of classmates. Manage your military budget to call in support. Fight against the evil of the empire in this grand strategy game. Students will be encouraged to use a combination of strategy, tactics, and skill to support each other throughout the campaign, with elements of resource management and team-building exercises. The emphasis of the class falls on teamwork rather than violence, with the combat setting being used as a vehicle for cooperation rather than a glorification of war itself.

# Week Two Strand Descriptions

## TDI 2019 Morning Strands Week Two—June 30-July 6

Please make first, second and third choice classes for each time period each week when you go to [www.tdivermont.org](http://www.tdivermont.org) and click on the link to register online. PLEASE NOTE GRADE LEVELS FOR EACH CLASS.

### Week Two Strands—8:30–10:00 AM

*Science Through the Ages—Grades 4-10*  
*Zoe Coutu*

What causes historical events? Is it people, organizations and governments, or other historical events? In this strand we'll focus on the impact of scientific developments and inventions on history. We will study everything from fire to steam power to models of our universe and the atoms that make them up. Put yourself in the place of both a scientist and a historian as we unravel the mystery of how and why certain historical events and trends happen.

*Tinkering—Grades 4-10*  
*Jackson Hall*

Do you ever wonder what's inside your old computer? How a CD player works? What a radio looks like on the inside? This strand is all about taking things apart. We will have some old electronics and other contraptions that we will (safely!) deconstruct into their most basic components and learn about along the way. By the end of the week, we will use pieces from what we've taken apart to design and fabricate something entirely new. What will you create?

*Fuzzbeed!—Grades 4-10*  
*Adam Browe, Bridger Ellms*

This summer you can participate in TDI'S own Media Company. Follow new trends, report on breaking news, make fun quizzes, and more. You can help develop the best media website this side of Lake Champlain.

*Meme Making—Grades 4-10*  
*Max Kriff*

Memes. You know them and love them. In this class we study them, discuss them and even make our own! How do memes become popular, how do they spread, and what makes them funny? These are all

topics of conversation in this class. Will your meme reach camp-, or even internet-, stardom?

*New School—Please Note: Grades 5-10*  
*Bridget Iverson, Eric Iverson*

What would you do if you were in charge of designing your dream school? What would it look like? Who would teach, and what subjects, and how? Is it indoors, outdoors, floating on a balloon? What classes will be available and why? As students, you are the #1 most qualified people to shake things up in education. Let's make the best school possible.

*Debate With Data—Please Note: Grades 6-10*  
*Max Bogue*

Explore a new way of having data-driven discussions. Each day we will research a topic online, then have chill discussions about what we've found. No winners or losers, no consensus required. The research will be structured as a tree of claims, which have points for or against them. Points can either be another claim or a data source. If you want to better understand the strength of the arguments and data behind your opinions, this strand is for you!

### Week Two Strands—10:15-11:45 AM

*DIY Spa Day—Grades 4-10*  
*Susan Flint*

Sometimes TDI can get stressful, exhausting, or just plain hot, and we need a place where we can cool down and relax. Introducing the new TDI Spa! We'll learn how to make facials, lotions, scrubs, you name it, and relax our bodies with meditation and massages. We'll also learn about how these products help us feel better, through chemistry, biology, and anatomy. If you need a place to sit down and kick back, then this is the strand for you!

*TDI Scholastic—Grades 4-10*  
*Jojo Williams-Keane*

In this strand you will create compilations of your own work, in order to create small books to share with your family and friends. Feel free to bring any work you are proud of from outside of camp, and prepare for a week of writing, drawing, creating, and laughing.

*Gathering Magic—Grades 4-10*  
*Johannes Everse*

Planeswalkers from across the multiverse (or campers from Vermont, if you want to sound boring) will band together in this strand to take

down everyone's favorite big baddie, Nicol Bolas, with nothing but the sheer power of Magic the Gathering cardboard! Join up with your friends as you train to defeat the elder dragon himself by building up your deck from scratch. Winning matches will unlock new cards to add to your deck, allowing you to play however you want. All cards will be provided, and absolutely no experience in shooting lightning or summoning tarmogoyfs is needed.

Genetics—Grades 4-10

*Dianne Villani*

Ever wonder why you are tall like your mother and have blue eyes like your father? Why your brother loves the taste of cilantro and you think it tastes like soap? It all has to do with genetics, which is the part of biology that is the study of genes and heredity. Heredity is how traits are passed from parent to child from one generation to the next. Through lots of fun activities, you will learn about chromosomes, genes, and DNA molecules, and why, even though you share about 98% of your genetic material with chimpanzees, you are a human and not a chimpanzee!

Model Roman Senate—Please Note: Grades 5-10

*Max Kriff, Cam Tagatac, Lillian Ilsley-Greene*

When Benjamin Franklin was asked what type of government the United States was to become he answered “A republic, if you can keep it.” In this class we emulate the republic that inspired all others before it, the Roman republic. Become a senator, run in elections, and vote to decide the future of Rome. How will you and your team of senators bring Rome to greatness?

Computer Game Design—Please Note: Grades 4-10

*Will Frick*

For as long as we have played video games, we have wanted to make them. But how is it done? Meet Unreal Engine 4, the tool used to make games ranging from blockbuster titles like Fortnite to countless indie games. Not only is it easy to get started with, it's completely free to use, so you'll be able to keep working on your creations from home after TDI! This class requires general computer skills, but no formal programming experience.

See next page for afternoon strands.

## TDI 2019 Afternoon Strands Week Two—June 30-July 6

Please make first, second and third choice classes for each time period each week when you go to [www.tdivermont.org](http://www.tdivermont.org) and click on the link to register online. PLEASE NOTE GRADE LEVELS FOR EACH CLASS.

### Week Two Strands— 1:00 – 2:30 PM

#### TDI Quilt—Grades 4-10

*Jojo Williams-Keane*

We will work together as a class in order to create a quilt of memory to celebrate our TDI. Throughout the week we will think of and write down stories and memories of TDI, create storyboards, draw images, cut and sew fabric, and incorporate all of this into a tangible object for all to see when they come to TDI for years after.

#### TDI Track and Field—Grades 4-10

*Maren Altadonna, Cam Tagatac, Jackson Fuller*

Have you ever wondered what makes some athletes so good? Or how you can become better yourself? This week, we'll use different athletic techniques while simultaneously exploring the physics, anatomy, and physiology behind athletics, specifically running. Come and learn the importance of a 90 degree angle, why you should run with flat feet, get some good training in, and much, much more! No experience necessary, just bring a good pair of sneakers.

#### Fun Stuff with Videos—Grades 4-10

*Bridger Ellms, Adam Browe*

Do you like to have fun and mess with software? Do you like videos? If you answered yes to these questions, this strand is for you. We will be editing creative videos in Adobe After Effects. If you want to learn how to make a gaming montage, edit videos, or just want to try something new and creative, come on down to Fun Stuff With Videos! No prior knowledge needed.

#### Adopt a Star—Grades 4-10

*Susan Flint*

A massive supernova has just exploded across our galaxy, creating hundreds of baby stars without a home! In this strand, you will adopt one of these stars and feed it, watch it grow, and create your own solar system. You, as a star-raiser, will earn star-food by exploring the Milky Way and gathering hydrogen dust from the mysterious games and events within our galaxy. Once the week is over, we'll release our stars back into space, where, based on how you cared for them, we'll figure out their futures.

#### Tabletop Collaborative Storytelling—Please Note: Grades 5-10

*Emily Bogue, Nathan Yaffe*

This is a strand for improvisers who prefer sitting down and gamers who care more about a good story than winning. We'll use a very simple tabletop role playing game system as a way to craft fun new stories, fully committing to custom character identities as we improvise and dice roll our way to completely original and unexpected adventures. Whether you want to embark on an epic high-fantasy quest or just pretend to be someone else for a little while, be sure to bring your imagination, strategy, and problem-solving skills to the table!

#### Computer Programming—Please Note: Grades 5-10

*Max Bogue*

Have you ever wondered how computers work? Do you love logic puzzles? If so, this strand is for you. You will learn the basics of computer programming and practice at your own pace with an online tool such as Khan Academy or CodeAcademy. We will also learn about what makes a computer a computer, what can be computed, encryption, and networks.

### Week Two Strands— 2:45 – 4:15 PM

#### TDI Times—Grades 4-10

*Lillian Ilsley-Greene*

Extra! Extra! Read all about it! TDI is getting it's very own newspaper, and you're the journalists! Help us report on events in and around camp, write your own articles, and run a newspaper! As a team you'll report, edit, and publish camp news for campers and parents alike. Write about strands, sports, leadershipers, the talent show. It's your camp—you decide the news! Join in the fun and help create the inaugural issue of the TDI Times!

#### Grandmaster Chess Club—Please Note: Grades 4-10

*Jackson Hall*

What goes on inside the mind of Magnus Carlsen, the world's best chess player? If you know how to play chess and want to get better, this strand is for you. By analyzing our own games and some of the best games ever played, we will learn and practice strategies to master the opening, middle game, and endgame. At the end of the week, we will hold an "official" tournament to show off the skills we have learned. Take this strand and learn how to start thinking like a Grandmaster. All experience levels are welcome as long as you are comfortable with the rules of the game.

*TDI Menagerie—Grades 4-10*

*Johannes Everse*

A new grant has recently been allocated for TDI to create its very own menagerie! Sadly, the grant was only 78 cents, so we're starting small. You will become a zoological caretaker in our quest to make an entire zoo out of bugs! After capturing your very own creepy or crawly, you will create an enclosure worthy of its majesty, all the while studying its habits and learning about insect kind! No prior bug-wrangling experience is required, however those who are not fond of critters boasting more than four legs should beware.

*Fantasy World Model UN—Please Note: Grades 5-10*

*Bridget Iverson, Eric Iverson*

Negotiation, problem solving, and a fair bit of fantastical ingenuity are all useful real world skills that come together in international diplomacy. In this strand, we'll be practicing our own diplomacy in a fantastical world we make up, using a framework for negotiations based on the real United Nations. Whether your passion is fantasy, debate, or good, old fashioned politics, we'll explore the interaction of the three in Fantasy World Model UN.

*Rube Goldberg Machines—Pls Note: Gr 5-10*  
*Will Frick*

You've seen them in videos and in cartoons, and maybe you've even tried to draw one before. Rube Goldberg machines are contraptions that do something very simple in a very complex way. And in this strand, we'll be making one. This is a highly hands-on activity; this strand is perfect for students with interests ranging from physics to engineering to cartooning.

*Character Design—Please Note: Grades 5-10*

*Nathan Yaffe, Emily Bogue*

Like to draw, write, or animate? Always coming up with ideas for superheroes but don't know how to get your visions on the page? Prolific writer but wish you had a clear idea of your protagonist's look and movement? Bored of drawing fanfic and want to come up with your own franchise? Whether your character lands in a comic series, storyboard, graphic novel, or pitch for a video game, we'll take a totally new idea from brainstorm to execution – with a focus on how anatomy, different artistic styles, dynamic poses, and detailed backstory can bring them to life.

**WEEK ONE Talent Development Institute 2019**  
**NORTHERN VERMONT UNIVERSITY (PREVIOUSLY JOHNSON STATE COLLEGE)**  
**DAILY STRAND (CLASS) CHOICES; JUNE 23-29, 2019**

SEE OUR BROCHURE AT [TDIVERMONT.ORG](http://TDIVERMONT.ORG) FOR FULL CLASS DESCRIPTIONS AND TO GET THE LINK TO REGISTER.

**YOU WILL CHOOSE FIRST, SECOND, AND THIRD CHOICES FOR EACH TIME PERIOD WHEN YOU REGISTER ON-LINE THIS YEAR!!!**

**COMMUTER DISMISSAL AT 5:30 PM EACH DAY, EXCEPT SATURDAY DISMISSAL AT 12 PM NOON**

7:30 – 8:15 AM . . . . . BREAKFAST(RESIDENTIAL) . . . . .						
8:15 – 8:30 AM . . . . . GATHERING TIME. . . . .						
8:30 – 10:00 AM  ESCAPE! AGAIN!  <i>BILL PINNEY</i> <i>GRADES 4-9</i>	WHO BUMPED OFF BENTLEY MEETS CSI  <i>STEPHEN AND JOHANNES EVERSE</i> <i>GRADES 4-9</i>	WHAT’S MY LINE?  <i>COLIN SPENCER, MAX KRIFF, ADAM BROWE</i> <i>WILL FRICK</i> <i>GRADES 4-9</i>	HISTORY COMES ALIVE  <i>SIERRA MAKARIS</i> <i>GRADES 4-9</i>	PHOTOJOURNAL LIFE AT TDI  <i>ASHLEY STOUT</i> <i>GRADES 4-9</i>	DRAGONOLOGY  <i>MARY MARKLEY</i> <i>GRADES 4-9</i>	
10:00 – 10:15 AM . . . . . BREAK . . . . .						
10:15 – 11:45  HIDDEN WORLDS  <i>ALICE RUSSELL</i> <i>GRADES 4-9</i>	LIGHTS, CAMERA, TDI!  <i>ADAM BROWE</i> <i>GRADES 4-9</i>	WEBSITES FOR BUSINESS AND FUN  <i>ASHLEY STOUT</i> <i>GRADES 4-9</i>	PRIMORDIAL: MUTATE AND SURVIVE  <i>JAMESON HURD</i> <i>GRADES 4-9</i>	TDI ON BROADWAY  <i>MAX KRIFF &amp; CAM</i> <i>TAGATAC</i>  <i>GRADES 4-9</i>	QUIDDITCH  <i>GRADY FARNUM RENDINO</i> <i>GRADES 5-9</i>	
11:45 – 12:55 PM . . . . . LUNCH AND SIESTA. . . . .						
1 – 2:30 PM  TDI QUILT  <i>JOJO WILLIAMS-KEANE</i>  <i>GRADES 4-10</i>	NOT SO PLAIN PLANES  <i>JOHANNES AND STEPHEN EVERSE</i>  <i>GRADES 4-10</i>	BOARD GAME DESIGN  <i>WILL FRICK</i> <i>GRADES 4-10</i>	BE YOUR OWN GOOD FRIEND  <i>NANCY MILDRUM</i> <i>GRADES 4-10</i>	WRITING AND LAUGHING  <i>SUSAN FLINT</i> <i>GRADES 4-10</i>	IMPROV!  <i>JAMESON HURD</i>  <i>GRADES 5-10</i>	<i>GENDER STUDIES</i>  <i>LILLIAN ILSLEY-GREENE, CAM</i> <i>TAGATAC</i> <i>GRADES 6-10</i>
2:30 – 2:45 PM . . . . . BREAK AND MEETING . . . . .						
2:45 – 4:15  MUSIC MAKING  <i>COLIN SPENCER</i>  <i>GRADES 4-10</i>	DIY SPA DAY  <i>SUSAN FLINT, MAREN ALTADONNA</i>  <i>GRADES 4-10</i>	MUSEUM OF TDI  <i>SIERRA MAKARIS</i> <i>GRADES 4-10</i>	COUGH, COUGH WHO’S THERE?  <i>BILL PINNEY</i> <i>GRADES 4-10</i>	THE DUNGEON FORGE  <i>JAMESON HURD &amp; GRADY FARNUM</i> <i>RENDINO</i> <i>GRADES 4-10</i>	ART EXTRAVAGANZA  <i>ALICE RUSSELL &amp; LILLIAN ILSLEY-GREENE</i> <i>GRADES 4-10</i>	<i>STAR WARS ATTACKTIX: GRAND STRATEGY</i> <i>WILL FRICK, MAX KRIFF, AND CAM</i> <i>TAGATAC</i> <i>GRADES 5-10</i>
4:15 – 4:30 PM . . . . . BREAK . . . . .						
4:30 – 5:30 PM . . . . . EXPLORATORIES . . . . .						
5:30 – 6:15 PM . . . . . DINNER (RESIDENTIAL) . . . . .						

**WEEK TWO TALENT DEVELOPMENT INSTITUTE 2019**  
**NORTHERN VERMONT UNIVERSITY (PREVIOUSLY JOHNSON STATE COLLEGE)**  
**DAILY STRAND (CLASS) CHOICES; JUNE 30-JULY 6, 2019**

SEE OUR BROCHURE AT [TDIVERMONT.ORG](http://TDIVERMONT.ORG) FOR FULL CLASS DESCRIPTIONS AND TO GET THE LINK TO REGISTER.  
**YOU WILL CHOOSE FIRST, SECOND, AND THIRD CHOICES FOR EACH TIME PERIOD WHEN YOU REGISTER ON-LINE THIS YEAR!!!**

**COMMUTER DISMISSAL AT 5:30 PM EACH DAY, EXCEPT SATURDAY DISMISSAL AT 12 PM NOON.**

<b>7:30 – 8:15 AM ..... BREAKFAST(RESIDENTIAL) .....</b>					
<b>8:15 – 8:30 AM ..... GATHERING TIME. ....</b>					
<b>8:30 – 11:45 AM</b>  <b>SCIENCE THROUGH THE AGES</b>  <i>ZOE COUTU GRADES 4-10</i>	<b>TINKERING</b>  <i>JACKSON HALL GRADES 4-10</i>	<b>FUZZBEED</b>  <i>ADAM BROWE &amp; BRIDGER ELLMS GRADES 4-10</i>	<b>MEME MAKING</b>  <i>MAX KRIFF GRADES 4-10</i>	<b>NEW SCHOOL</b>  <i>BRIDGET AND ERIC IVERSON GRADES 5-10</i>	<b>DEBATE WITH DATA</b>  <i>MAX BOGUE GRADES 6-10</i>
<b>10:00 – 10:15 AM ..... BREAK .....</b>					
<b>10:15-11:45 AM</b>  <b>DIY SPA DAY</b>  <i>SUSAN FLINT GRADES 4-10</i>	<b>TDI SCHOLASTIC</b>  <i>JOJO WILLIAMS-KEANE GRADES 4-10</i>	<b>GATHERING MAGIC</b>  <i>JOHANNES EVERSE GRADES 4-10</i>	<b>GENETICS</b>  <i>DIANNE VILLANI GRADES 4-10</i>	<b>MODEL ROMAN SENATE</b>  <i>MAX KRIFF, CAM TAGATAC, LILLIAN ILSLEY-GREENE GRADES 5-10</i>	<b>COMPUTER GAME DESIGN</b>  <i>WILL FRICK GRADES 4-10</i>
<b>11:45 – 12:55 PM ..... LUNCH AND SIESTA. ....</b>					
<b>1:00 – 2:30 PM</b>  <b>TDI QUILT</b>  <i>JOJO WILLIAMS-KEANE GRADES 4-10</i>	<b>FUN STUFF WITH VIDEOS</b>  <i>BRIDGER ELLMS &amp; ADAM BROWE GRADES 4-10</i>	<b>TDI TRACK AND FIELD</b>  <i>MAREN ALTADONNA, CAM, JACKSON GRADES 4-10</i>	<b>ADOPT A STAR</b>  <i>SUSAN FLINT GRADES 4-10</i>	<b>TABLETOP COLLABORATIVE STORYTELLING</b>  <i>EMILY BOGUE AND NATHAN YAFFE GRADES 5-10</i>	<b>COMPUTER PROGRAMMING</b>  <i>MAX BOGUE GRADES 5-10</i>
<b>2:30 – 2:45 PM ..... BREAK AND MEETING .....</b>					
<b>2:45 – 4:15 PM</b>  <b>TDI TIMES</b>  <i>LILLIAN ILSLEY-GREENE GRADES 4-10</i>	<b>GRAND MASTER CHESS CLUB</b>  <i>JACKSON HALL GRADES 4-10</i>	<b>TDI MENAGERIE</b>  <i>JOHANNES EVERSE GRADES 4-10</i>	<b>FANTASY WORLD MODEL UN</b>  <i>BRIDGET AND ERIC IVERSON GRADES 5-10</i>	<b>RUBE GOLDBERG MACHINES</b>  <i>WILL FRICK GRADES 5-10</i>	<b>CHARACTER DESIGN</b>  <i>NATHAN YAFFE AND EMILY BOGUE GRADES 5-10</i>
<b>4:15 – 4:30 PM ..... BREAK. ....</b>					
<b>4:30 – 5:30 PM ..... EXPLORATORIES .....</b>					
<b>5:30 – 6:15 PM ..... DINNER (RESIDENTIAL) .....</b>					