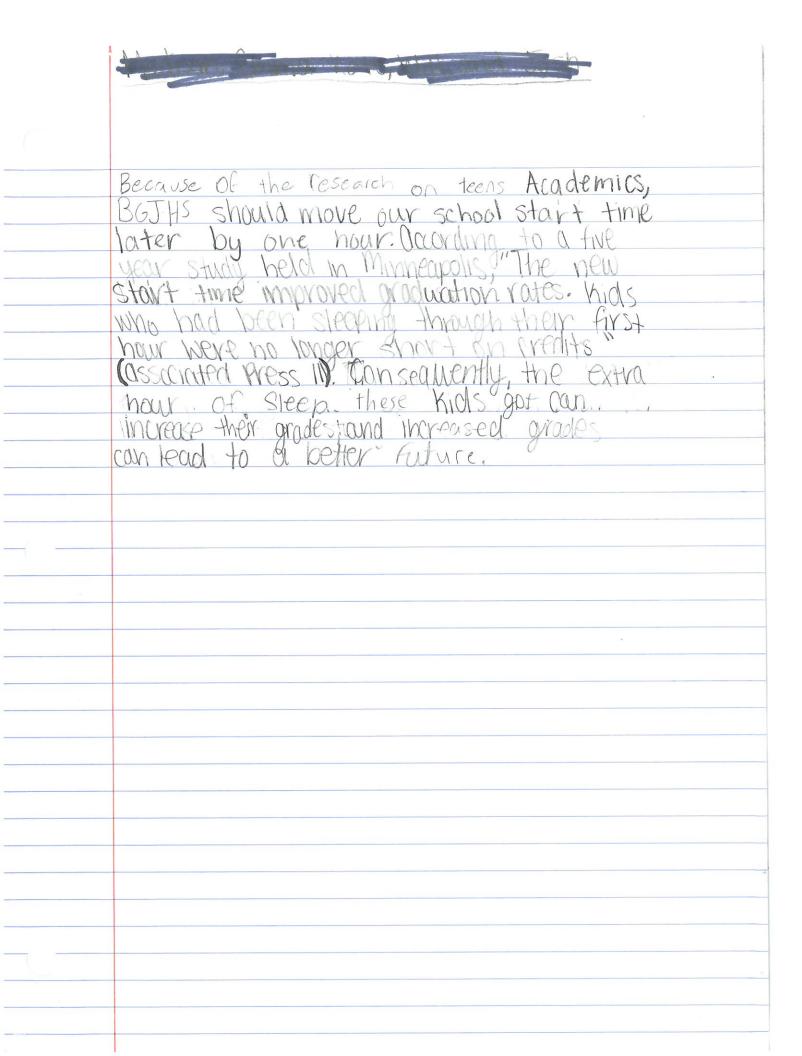
School Start Time: Science Paragraphs Student Work

on school nights? Research Shows that teems!
Steep patterns don't allow them to get anagh sleep sleep required. Therefore, because of the research on teems! Steep patterns, we should delay the start of school until 9:30. Delaying the start of school will thefit health, safety, and aladernics. According to Dr. Judith arens, the directly of sleep medicine at Children's medical center sars, "teems are biologically programmed to fall aster at 11:00 and hake up around 9:00 "(Fox). This shows that he need to pash up air school starting time. In other words, starting school later will boost up air health, safety, and aladernics.



Itarting schools an hour later would be beneficial towards students because it decreases teen crash rate. In "Kentucky (1998): Preventing Drowey Driving Craones" It says "Coparison in collision rates of Fayette county teen revealed that the cross rate for 16-18 year olds dropped tollowing the change (Starting school an hour late] (Fayette County, Kentucky)!"
This means that terms with tess steep will put the temstives and others in danger of car collisions, because when teens are exhausted they can crash into others, Dringing them injuries and the other drivers harm, and even potentially bringing fatality. This concludes that teems should go to school an hour later because it II help prevent many muries, or death, causta by drowing dr-Wers crashes.



THE MOSPANCIN ON HEEN'S SIEED potterns grows, we should delay 16 SHORT OF SUMOOD UNTIL 8:30 An experiment conducted by Dr. Mary A. Carskodon of Brown University, CICCOCION MYHOM HMING. CIRCACION MYHOME ORE PHYSIOCH, METHAI and Benovioral Ghanges that follow or 24nour cycle, they respond to light and old veness. The melationin, a name that make you sleepy, is snown to occur at joter times when moturing making it harder to fall Object. This evidence shows that suppole should start at 10 10 10 10 10 15 SUNDOIS Start later students will be mentally and physically ready for school.

According to Or Mary A. Carshadon, a screntist who sides sleep habits, at Brown university,
The brokegroad clocks that control crodian rythms are groupings of interocting molecules in cells throughout the body. A "master" clock on the brown coordinates all the body clocks so that they are an synch." As teens mathere, their beological clocks go out of synch, making it harder to go to sleep of a reasonable time. Becomes of this BGJHS should move their start time back one hour to better occamidate teems sleep needs to help with academics, safety and health, "Students got less sleep in high school, on school hights they averaged six hours and Esty manutes. this was seventeen minutes less than in middle school, which is significant because the students were already cleep deproved (Carskadon). This is important because with such sleep deprivation, students grades will drop dramationly, they will stay up later to study, and the coole continues. According to National Highway Traffic Safty Amenistration, on organization that keeps track of crashes," Among drivers age 15-24, more than 1,500 fotalities each year are associated to such crosses Econsed by drowsoness]" With on extra have of sleep, teens will feel more rested and make better judgement while driving, leading to fewer crashes and Estalcties. According to Dr. Mary A. Carskadon who lead an expression to concerning sleep in teens, "This finding shows that melatorin secretion occurs at a later time on adolerents as they mature." (carshadon 1) Meletarion is a harmon that controlls drowsmess. When melatonen is secreted at a later time, it makes it havdes to go to sleer at an earlier time. That is why BGJHS should



Many schools have early start times - 7:30 or
earlier-but this is harming their students. Research Shows that teens internal clocks cause them to fall
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1280 & 1/2 +0 9 14 hours as speed but
asleep naturally at 11:00, or later. Usually, teens need & 1/2 to 9 4 hours of sleep but with these early start times this is impossible (Carshadan et al., 1995). In conclusion,
impossible (Earskadon et al, 1995). In conclusion,
teens need more time to sleep in order to succed in
s chool.
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Bowling Green Junior High School should Start their school one hour later than usual. Bod heath is one reason why we should Start earlier. According to research school starting times and bidogy, "Nearly half of the 10th high schools showed signs of narcolepsy. They moved immediately into REM sleep before non-REM sleep. This reflected the mismatch Letween their School day waking times and their circudian rhythms. Because of students lack Of sleep, they are very tired in the mornings cill day. IXTHIS THEOTIS, it will affect their excutervite scores. According to Doctor Constaction. Director of 4.P. Broding Hospital lescarch carratory and professor in Appartment of Psychology and Homan Benavior OH Brown University Septon of wedicines says teens need at past of the kours of skeps but no students even get Blyg hours. It we can pron back school hours, students would be better off in the day.

I This means we should push back school stathing hours by one hour so students can facus all day in school.

One member from student group typed and developed into a full essay because she was interested in the topic

School Start Time

I dread getting up in the mornings. I have watched video after video to improve getting ready for school. I try to pick out the outfit and my schedule is down to the science, but I still have problems waking up. I feel that if I go to bed late and wake up on time, I feel refreshed. As the day goes on, I begin to become extremely exhausted. In my opinion, I feel that if schools started later, teens would be able to have a better overall day. Even though some adults say that starting school time would reduce the number of after school activities, it would cause teens to improve mood and overall health, enhance performance in school and daily life, and follow their biological sleep patterns.

Sports and other extracurricular activities are very important, but when health and mood comes into play, health should have an advantage. Sometimes these extracurriculars get in the way of the most important things. Heather Macintosh, who is part of a national organization called Start School Later says, "'What is the priority?... It should be education, health and safety. All other stuff may not be perfect - you may have to have your violin lesson before school or install lights on your field for sports - but it will work itself out.' "(Associated Press) This reveals how adults and teens care more about their extracurriculars more than their overall health and Heather says that these things can be worked out. Once the priority is chosen, there will be little problems to maneuver around and if this isn't thought about bigger problems could occur. For example, "[teens] who don't get their rest suffer from irritability, depression, poor impulse control and violence. ... They may use tobacco and alcohol." (Backgrounder) Consequently, teens would be more emotional than they already are and could pick up bad habits at an early age. Adults pick up alcohol and smoking when they are stressed and teens could become like that too. There are posters everywhere telling teens not to do drugs or drink but there is no way they could control their actions if they are sleep deprived.

Many schools open very early and most people ride the bus. This means they have to get up even earlier especially if they are one of the first stops. They become very tired and can not pay attention in school and many people are advising that this changes. According to the Centers for Disease and Prevention report, "Nearly 70 percent across America aren't getting enough sleep to work properly and some experts are saying Middle and High schools should start later so teens can sleep in." (Center for Disease) Therefore, if schools decided to start school later, America would work more efficiently because we would have more sleep." For instance, "[teens] are unable to maximize their learning opportunities. Sleep deprivation impairs their ability to be alert, pay attention, solve problems, cope with stress and retain information." (Backgrounder) This is all schooll is and it proves that teens are not ready for school without a good night's sleep which is hard to find.

A teens biological schedule is not like kids or adults. For example, "[most] teens experience a sleep-phase delay. This means they tend to fall asleep later at night and wake up later in the morning. This is why we "feel wide awake" when it is time to go to sleep because our brain thinks we are when we are actually "exhausted". (Backgrounder) So when I finally decide to go to bed at 10:00, I end up waking up around 6:00 feeling refreshed. My body then realizes later in the day that I did not get enough sleep and tries to shut down which is very inconvenient. Teens can not help their sleep patterns because their body is changing and there's nothing they can do about that because it is just a part of growing up. Many studies have been done over this topic and have had the same conclusion which is, "teens don't get sleepy until around 10:45 p.m. ... Once they fall asleep, they stay asleep for about nine hours and 15 minutes. They naturally wake up around 8 a.m. ... 'It's a human phenomenon, not geared to any culture.' "(Associated Press) This means that all teenagers have at least one thing in common which is their sleep habits. They can't be reversed because it has always been this way so teachers and schools need to cope with these habits to improve not just their students, but their overall school.

In conclusion, Bowling Green Junior High School should change their start time. It would improve a teen's mood and health, excell their education, and cause teens to follow their regular sleep schedule improving their overall life. Changing start time would have a lot of benefits on the teenage body. Teachers and administrators just need to think what is more important here, extracurriculars or their students.