



National Certificate of Educational Achievement
TAUMATA MĀTAURANGA Ā-MOTU KUA TAEA

Exemplar for Internal Achievement Standard Economics Level 1

This exemplar supports assessment against:

Achievement Standard 90987A

Demonstrate understanding of a government choice where affected groups have different viewpoints

An annotated exemplar is an extract of student evidence, with a commentary, to explain key aspects of the standard. These will assist teachers to make assessment judgements at the grade boundaries.

New Zealand Qualification Authority

To support internal assessment from 2014

	Grade Boundary: Low Excellence
1.	<p>For Excellence, the student needs to demonstrate a comprehensive understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • providing a detailed explanation of how the economic decision is affected by limited means and/or scarce resources • identifying options and compromises by collecting information from groups with differing viewpoints • ranking options by weighting different costs and benefits • justifying a recommendation by providing detailed explanations of the weightings given to different costs and benefits. <p>The student has demonstrated comprehensive understanding by identifying scarce resources, explaining how limited money and the goals of the Board of Trustees (BOT) may affect an economic decision about an unrestricted donation from licensing trusts, and why this economic decision would create an opportunity cost (1).</p> <p>The student collected information, gathering different viewpoints from interviews. Options and compromises were identified (2), the main factors used as weightings applied to identified costs and benefits were explained (3).</p> <p>The benefits were explained in terms of the identified main factors. Costs of the options have also been identified and described (4).</p> <p>The ranking and recommendation is consistent with the quantitative scale used and explained in (3) as to how the weightings were developed. The recommendation explains why these weightings were used, and the influence of the compromises was explained (5).</p> <p>For a more secure Excellence, the student would explain the costs in more depth, understanding that some costs may be more significant than (outweigh) any short term benefit. One example of this has been provided (5).</p>

Student 1: Low Excellence

Resources are scarce as they are limited relative to the demand for them. Resources can be time, skills or income. In this example the scarce resource is limited money; the unrestricted donation of \$5,000 from the XYZ licencing trusts. The Board of Trustees (BOT) needs to make a choice from the various options as to how the unrestricted donation should be spent, because the resource is limited they will face the problem of opportunity cost, the real cost of an economic decision. The BOT has indicated that they want the money to benefit as many students as possible, and help meet the school goals. This could also involve a compromise where all the groups give up some of what they want so that all groups are satisfied to some degree.

1

One viewpoint is spending the grant on 5 new data projectors to be used in the classrooms; this viewpoint was made by the IT department.

The second viewpoint is to spend the entire donation on new sports uniforms and equipment, and assist less well-off students to pay sports fees, made by the sports department.

A compromise by Mr J Doe was to split the donation, at least \$1,000 in sports department (as some money is better than none) and the remainder in the IT department;

A compromise by Ms M Smith was to purchase only 3 projectors instead of 5 data projectors, and the balance given to the sports department.

2

The BOT wants the money to help achieve school goals, and for the grant to benefit the most students possible. The main factors when evaluating each option will be the amount of people benefiting, a low number of people will earn a weighting of 1, and a high number of people will earn a weighting of 4.

Another factor I will be considering is whether the department benefiting would have been able to achieve their aims without the donation, if not it will receive a weighting of 3. The final factor I will consider is whether the option helps achieve the goals set forth by the school and the Ministry of Education (MOE). If so it will receive a weighting of 2. This means I will be ranking the options out of 9. A negative weighting will be applied to each cost identified for each option.

3

The option suggested by the sports department, to help less well-off students pay sport fees, and to purchase new sports gear only benefits a small number of people (1). However, the sports department would not be able help these people without the aid of the grant as the sports department has little funding apart from funding used to support core subject PE (3).

If the money is spent on buying the uniforms then it will increase the student's involvement in the school. The school's goal to increase student involvement in extracurricular activities, therefore they can now achieve that goal. The costs involve wear and tear on new sports uniforms and equipment and replacement costs (-2). For these reasons this option suggested by the sports department has an overall weighting of 2/9.

The option placed by the IT department, to use the \$5,000 grant to purchase 5 data projectors for classrooms in order to assist learning, benefits many people including students in the school as data projectors can be used in virtually every subject, as each class gets a data projector teachers can teach in a more comprehensive way and students are benefited (visual learning) to take in information (4).

This option also helps achieve the goal set by the Ministry of Education of putting a computer into every classroom so teachers can communicate information to their students in a more effective manner and motivate students to learn and do research, helping students to get Excellence (2).

However, there are costs involved and these include the initial cost of data projectors in dollar terms, and ongoing costs like repairs/maintenance of data projectors, i.e. bulbs and replacement costs (-2). For these reasons this option receives an overall weighting of 4/9.

4

Splitting the grant money is a third option, where the sports department receives at least \$1,000 and the IT department receives the rest to purchase data projectors. This would benefit the most people (4), and help meet the goals of the school and MOE (2), and assist a department that otherwise would not get funding to

help less well-off students pay sports fees (3). However, less data projectors will be purchased (-1) so this option has an overall weighting of 8/9.

1. Split the grant money (8/9)
2. The IT option (4/9)
3. The sports option (2/9)

5

I recommend the Board should give \$3,000 of the grant to the IT department for the purchase of three data projectors for classrooms in order to assist learning in multiple areas. The remaining \$2,000 should be given to the sports department. The opportunity cost of this economic decision is less data projectors being purchased.

This recommendation was influenced by the compromises made by Mr J Doe and Ms M Smith, because to guarantee that the sports department received at least \$1,000 the IT option was not chosen (4/9). This option was not chosen because the IT department would have been able to purchase extra projectors in time with given funding.

The sports option is not recommended because it only received a weighting of 2/9 and very few people directly benefit. Whereas, splitting the grant money will benefit most people throughout the school, meeting the wishes of the Board, and three data projectors can be used for every subject and less well-off sportspeople are also helped to achieve their goals, the sports department could not help these people without the grant, and the goal of putting a computer into every classroom, which was put forward by the Ministry of Education is also addressed, so this recommendation receives a weighting of 8/9 according to the important factors used to evaluate the costs and benefits of each option.

While making this recommendation I have considered the fact that some costs and benefits are more significant than others. I believe that the numbers of people benefiting to be highly important and my weightings reflect that. Overall, I recommend that the Board give \$3,000 to the IT department to purchase data projectors and \$2,000 to the sports department to help pay sports fees of less well-off sportspersons.

5

For example, annual sports fees are an ongoing cost; so is funding a small number of student fees for just one year the best use of the one-off monetary donation? Would this benefit the most number of students longer term?

5

	Grade Boundary: High Merit
2.	<p>For Merit, the student needs to demonstrate an in-depth understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • providing a detailed explanation of how the economic decision is affected by limited means and/or scarce resources • identifying options and compromises by collecting information from groups with differing viewpoints • ranking options on the basis of the costs and benefits • justifying a recommendation by referring to the relative costs and benefits. <p>The student has demonstrated an in-depth understanding by identifying scarce resources, explaining how limited income and the goals of the BOT may affect an economic decision about an unrestricted donation from licensing trusts, and why this economic decision would create an opportunity cost (6).</p> <p>Additionally, the student collected information, gathering different viewpoints from interviews, and the student has also identified options and compromises from this information (7). The student also applied the main factors involved in making the economic decision to costs and benefits (8).</p> <p>The costs and benefits of the options were evaluated and ranked on the basis of the weightings given to the different costs and benefits (9). The recommendation has been justified by referring to the relative costs and benefits, and is consistent with the evaluation of the options (10).</p> <p>To reach Excellence, the weightings need to be explained in detail, for example, how the main factors influenced the weightings in terms of the numerical scale, and why some factors were considered more important than others would be explained.</p>

Student 2: High Merit

Resources are scarce as they are limited relative to consumer's unlimited wants. The limited means are time, skills and income. In this situation the scarce resource is limited income; the unrestricted donation of \$5,000 from the XYZ licencing trusts. The Board of Trustees (BOT) needs to make a choice from the various options as to how the unrestricted donation of \$5,000 should be spent, because the resource is limited they will face the problem of opportunity cost, the real cost of an economic decision. Time is also an issue as the Board need all the recommendations to be handed in before their next meeting, and lack of necessary skills in collecting all the relevant information from groups with differing viewpoints may affect the economic decision. The BOT has indicated that they want the money to benefit as many students as possible, and help meet the school goals. This could also involve a compromise where all the groups give up some of what they want so that all groups are satisfied to some degree.

6

There are two options in how the \$5,000 can be spent. Viewpoint 1 is to spend the money on 5 new projectors which was made by the IT department. Viewpoint 2 was to spend the \$5,000 on new sports uniforms and PE gear which was made by the sports department. A compromise they were prepared to make is to spend \$2,500 on PE gear and \$2,500 on 2 new data projectors and 3wii remotes. This means both parties will be satisfied.

7

The main factors that I will consider when evaluating each option will be how many people will be satisfied, and how many people will benefit from the options. I will also consider the viewpoints/opinions of teachers/students from each department and the outcome on spending the money (the results). Also, I will consider the effect on the future generations (people who are going to come to ABC College).

8

Sports department:

- **A benefit;** if the money is spent on buying the uniforms for the sports departments then it will increase the student's involvement in the school. The school's goal to increase student involvement in extracurricular activities, therefore they can now achieve their goal (3).
- **Another benefit:** The uniforms are cheaper therefore students do not need to worry too much as it is now less expensive to play sport so more students will be willing to play sports and this is what the school wants (3).
- **A cost** will be fewer projectors in all the classrooms and therefore the classrooms will have to use blurry projectors (2).
- **Another cost:** The \$5,000 is not enough for the sports uniforms and equipment therefore it will not have such a big effect and because the projectors need replacing every 3-5 years the IT department could have used the money more (1).

9

IT Department:

- **A benefit** is there will be more impact on teachers and students around the school as each and every class uses data projectors, teachers can teach in a more comprehensive way and students are benefited (visual learners) to take in information (3).
- **Another benefit:** Teachers can communicate information to their students in a more effective manner e.g. you-tube. Hence, then motivating students to go on these sites at home and learn, and do research, or homework helping students to strive for excellence (3).
- **A cost** is if all the money is spent on projectors then they could be seen as preventing healthy eating and exercising to the students in our school, as obesity is a serious issue (2).
- **Another cost is** that not all classrooms will get a new projector as only 5 can be purchased for the money and those with none will get first priority over those who need theirs replaced (2).

Split the money:

- **The benefits** of this include both departments receiving money for equipment and they will be happy with the decision. There will be more participation in sports and promote healthy eating/exercising/involvement in the school (8).

- The cost is that \$2,500 may not be enough to buy valid equipment, so not make much of an impact for either department (2).

1. Split the money has more benefits (8) than costs (2) so overall has a weighting of 6
2. The sports option has more benefits (6) than costs (3) so overall has a weighting of 3
3. The IT option has the more benefits (6) than costs (4), but overall has a weighting of 2

My recommendation is that they both compromise and split the money fairly in half so both departments can benefit.

The PE department can get more uniforms so it is less expensive for students to play a sport. This increases student involvement in the school and the benefits are 6/10. Obesity is a serious issue in NZ so promoting less expensive sports gear is great for future generations. This is also the best option as they can now afford to get 2 new projectors and 3wii remotes, both teachers and students benefit by this decision and also has a weighting of 6/10, same as the PE department.

The benefits (8) for the compromise significantly outweigh the costs of the other 2 options. The sports option did have about 65% support as the majority of students play sports and would be satisfied with this option but the costs of this option (3) are higher than the cost of the compromise (2). Overall the compromise should be chosen as the best option and would be the best economic decision the Board could make.

	Grade Boundary: Low Merit
3.	<p>For Merit, the student needs to demonstrate an in-depth understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • providing a detailed explanation of how the economic decision is affected by limited means and/or scarce resources • identifying options and compromises by collecting information from groups with differing viewpoints • ranking options on the basis of the costs and benefits • justifying a recommendation by referring to the relative costs and benefits. <p>The student has demonstrated an in-depth understanding by identifying scarce resources, and explaining how limited income and the goals of the BOT may affect an economic decision about an unrestricted donation from licensing trusts (11).</p> <p>The student has collected information, gathering different viewpoints from interviews, and the student has also identified options and compromises from this information (12). The main factors involved in making the economic decision were identified from student resource material (13).</p> <p>The student has also identified some costs and benefits of both options (14). The influence of the compromises has been considered when making the final recommendation, and the recommendation has been justified by looking at the relative costs and benefits (15).</p> <p>A more secure Merit would be attained if the costs and benefits were explained in more depth in terms of how or why, rather than listed as statements. Additionally, the student would be able to explain why making an economic decision creates an opportunity cost.</p>

Student 3: Low Merit

Resources are scarce as they are limited relative to consumer's unlimited wants. The limited means are time, skills and income. In this situation the scarce resource is limited income; the unrestricted donation of \$5,000 from the XYZ licencing trusts.

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The Board of Trustees (BOT) needs to make a choice from the various options as to how the unrestricted donation of \$5,000 should be spent. The BOT has indicated that they want the money to benefit as many students as possible, and help meet the school goals. This could also involve a compromise where all the groups give up some of what they want so that all groups are satisfied to some degree.

Options: New sports uniforms and equipment, and assist some students to pay sports fees. Compromise by Mr J Doe was to split the donation, at least \$2,000 in sports department (as some money is better than none) and the remainder in the ICT department.

12

5 new data projectors to be used in classrooms, compromise by Ms M Smith was to purchase only 1 new high tech projector instead of 5 data projectors, and the balance given to the sports department.

Main factors: Increase learning for students; activeness of students; which area would benefit more from the money and has a bigger effect.

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Benefits of sports option:

- Students would be encouraged to play sports when they have good equipment.
- Students become more active.
- Sports coordinators would get paid.
- Teams wouldn't have to pay as much money (money goes towards equipment) meaning more students are likely to play.
- Better gear means more students are likely to play, widening the amount of diverse people playing sport which means students get to socialise more.

Costs of sports option:

- Students who are more into technology as a career would complain that the \$5,000 should go towards ICT.
- School donations from parents of students wouldn't go towards the sports department when they already have enough from the \$5,000.

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Benefits of ICT option:

- Students will engage more when they have a good quality projector to learn off. They will be more engaged.
- She uses them on a daily basis and it would make her job easier.

Costs of ICT option:

- Students would be less interested in being active and staying fit.
- School donations would stop going to their department.

1. The sports option has more benefits than costs

2. The ICT option has the same amount of benefits and costs

For the economic decision of: should the \$5,000 donated from the XYZ licensing trust go towards 5 new data projectors for the ICT department and be used in classrooms or new sports uniforms and equipment.

The limited means is the amount of income because there is not enough money for both the new data projectors and brand new sports equipment and uniforms.

15

The money should be divided between the two options. This would be the best decision because this way each department gets some money instead of one getting everything and the other getting nothing. In this compromise \$2,000 goes towards the sports department, not necessarily for uniforms and equipment, but to use however they please.

The remaining \$3,000 can go towards the ICT department for their data projectors or 1 new high tech projector. I consider this to be the best decision based on the relative costs and benefits. Benefits being that if the sports department get better gear and uniforms, more students would be encouraged to play, increasing their active levels and making them healthy and fit. Also the fees would become reasonably cheaper for sports players so more students are willing to play. The fees would decrease because the money they were paying towards the sports coordinator could now be covered by the donation, and these benefits outweigh the few costs. The ICT department can now afford to get projectors they need that are good quality. As the quality of projectors increases students are more likely to be more engaged in the lessons, and make operating the projectors easier.

The costs were limited but effective in helping to reach this recommendation, because if all the money went to either department, the opposing department would be unhappy, and the receiver of the donation would receive less of the school fees, so would also be rather unhappy. Therefore, the money being donated by the licensing trust should be divided between the two departments as everyone would be reasonably happy with this compromise.

	Grade Boundary: High Achieved
4.	<p>For Achieved, the student needs to demonstrate understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • describing or providing an explanation of the economic decision the government must make • identifying options by collecting information from groups with differing viewpoints • identifying the costs and benefits of options • providing an explanation of a recommendation on the option the government should choose. <p>The student has demonstrated understanding by identifying the scarce resource and describing an economic decision about an unrestricted donation from licensing trusts (16). The main factors involved in making the economic decision were identified from student resource material (17).</p> <p>Additionally, the student identified options and a compromise from collected information, and has explained some of the costs and benefits of the options (18). The options have been ranked, and the recommendation has been explained, and is consistent with the evaluation of the options (19).</p> <p>To reach Merit, the student would explain in detail how and why the economic decision is affected by limited means and/or scarce resources. The costs and benefits would be explained in more depth in terms of how or why, and the relative costs and benefits in the recommendation would be explained in more depth, e.g. explaining why the benefits of the compromise option outweigh the costs.</p>

Student 4: High Achieved

In this situation the scarce resource is limited income; the unrestricted donation of \$5,000 from the XYZ licencing trusts, the money is part of limited means. The economic decision is finding the best possible way to spend the \$5,000, and the two suggested options are new projectors or new sports equipment.

16

How much student learning improves; quality of product purchased; price and value of decision; how teachers will benefit from the decision.

17

- \$5,000 spent on new data projectors for the ICT department
- \$5,000 spent on sports uniforms and equipment for the PE department
- One suggested compromise by a PE teacher is to have \$4,000 for PE equipment and \$1,000 on data projectors. This is because the ICT department already gets lots of money every year
- Another suggested option is to spend \$2,500 on the PE department and \$2,500 on the ICT department; this will benefit both departments equally.

18

The costs for getting data projectors are students miss out on a range of sports gear and uniforms, not having enough sports gear will affect students learning (a main factor). Another cost is only a few students will benefit from it as not everyone has ICT as a subject.

The benefits for getting projectors are they will increase ICT students learning which is a main factor. Another benefit is it will make teaching for teachers easier.

The costs for getting new sports gear and uniforms are there will be a larger range for students PE learning purposes and teachers will have more equipment to teach with.

The benefits for a compromise are both the ICT department and the PE department will get some of what they want to benefit students and teachers.

The cost of a compromise is both the ICT and PE departments won't get the best outcome.

18

- \$4,000 on PE department, \$1,000 on ICT department 4/5
- \$2,500 spent on PE department, \$2,500 spent on ICT department 3/5
- \$5,000 spent on PE gear and uniforms 2/5
- \$5,000 spent on data projectors for ICT department 1/5

19

I recommend that a compromise of \$4,000 towards the PE department and \$1,000 to the ICT department to get new data projectors is the best outcome for the \$5,000. I came to this conclusion because I ranked all the options and worked through the decision making process. I ranked them all based on their costs and benefits. If \$4,000 was spent on PE gear and \$1,000 spent on data projectors students will benefit a lot more and this is a main factor, and the ICT department already gets thousands of government budget dollars per year and the PE department gets none. The compromise has the highest ranking; this is because the benefits outweigh the costs. It also has more significant benefits which relate to the main factors and goals. This is why it is the best option and has the best outcomes and benefits for students and teachers.

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	Grade Boundary: Low Achieved
5.	<p>For Achieved, the student needs to demonstrate understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • describing or providing an explanation of the economic decision the government must make • identifying options by collecting information from groups with differing viewpoints • identifying the costs and benefits of options • providing an explanation of a recommendation on the option the government should choose. <p>The student has demonstrated understanding by describing an economic decision about an unrestricted donation from licensing trusts (20). The main factors involved in making the economic decision were identified by the student (21).</p> <p>Additionally, the student identified options and compromises from collected information, and has explained some benefits and costs of the options (22). The student has ranked the options, and a recommendation has been described (23).</p> <p>A more secure Achieved would be attained by identifying more costs and benefits of the options, and the recommendation would be consistent with an objective evaluation of the options against the main factors.</p> <p>For example, equality was described as a main factor; however equity was not identified or described as a main factor but was used as a reason for the recommendation.</p>

Student 5: Low Achieved

The limited means in this situation is money. The economic decision is finding the best possible way to spend the \$5,000, and the two suggested options are new projectors or new sports equipment. The board must decide what to spend the money on, making a decision that is best for the school.

20

Some of the main factors I will consider will be sport being a very important part of school, but equal with other classes that use projectors. The amount of money that there is to spend is also something to consider. There is only a limited amount of money to go around and it has to be spread evenly.

21

The different viewpoints are from an IT teacher and from a sports teacher. The IT teacher said that the \$5,000 would be well spent if they could buy 5 more projectors for the school. The sports teacher said that the money would be well spent if they could buy some more sports gear for students. They think that the sports gear would be good when representing our school. The IT teacher said projectors would be good because it would make student learning time easier. They are both prepared to make compromises. The IT teacher said that some of the money could be spent on 3 projectors and the rest of the money could go on the sports gear. The sports teacher said that \$3,000 could be spent on sports gear and \$2,000 on projectors, but would be happy with half each.

22

Some of the benefits of having good looking sports gear are when people see our teams at a sporting event they will think that our school takes pride in how we represent ourselves. Some of the costs are they can only order the sports gear in small amounts, so it would cost a lot to do it that way. Some benefits for projectors are that it makes it a lot easier for a teacher to show a class something on a big screen rather than printing it out and the students just having paper. Some costs are that projectors only last about 5 years so they are replacing them a lot. Plus the school would spend a lot on paper, if they don't get projectors; this is bad for the environment.

22

My best ranked option is a compromise where both departments get half each; next would be the next compromise of PE getting \$3,000 and IT getting \$2,000; third would be the sports department getting it all, because PE is important; fourth is the IT department getting it all, because projectors are important to all the school.

23

My recommendation of a decision to the Board is that both departments get half each, because spreading it out evenly treats everyone fairly. This way they can't complain of being treated unfairly and I give my recommended option a weighting of 8/10 because it is beneficial to all of the school.

	Grade Boundary: High Not Achieved
6.	<p>For Achieved, the student needs to demonstrate understanding of a government choice where affected groups have different viewpoints.</p> <p>This would typically involve:</p> <ul style="list-style-type: none"> • describing or providing an explanation of the economic decision the government must make • identifying options by collecting information from groups with differing viewpoints • identifying the costs and benefits of options • providing an explanation of a recommendation on the option the government should choose. <p>The student has demonstrated understanding by partially describing an economic decision about an unrestricted donation from licensing trusts (24), and has identified the main factors involved in making the economic decision from student resource material (24).</p> <p>Additionally, the student identified options from collected information, and has identified some costs and benefits of the options (25). The options have been ranked and the recommendation is consistent with the ranking (26).</p> <p>To reach Achieved, the student would identify and explain more relevant costs and benefits. Additionally, the student would provide a recommendation that is consistent with the evaluation of the options, which can therefore be explained avoiding subjective statements.</p>

Student 6: High Not Achieved

The limited means in this situation is money. The board must decide what to do with the money that will benefit their school the most.

24

How much student learning improves; quality of product purchased; price; how teachers will benefit from the decision.

24

\$5,000 spent on new data projectors for the ICT department.
\$5,000 spent on sports uniforms and equipment for the PE department.

25

Data Projectors:

Benefits; more learning for students taking ICT, and they want to get good quality ones so this will make teaching easier.

Costs; not everyone takes ICT, the quality ones cost about \$1,000 each, so they can only get 5, and the sports department will be unhappy.

Sports uniforms and equipment:

Benefits; our teams will look better on the field, the teachers will have more sports equipment to use with students, more students might play sport and not get fat.

Costs; doesn't improve student learning, and the ICT department will be unhappy.

1. \$5,000 spent on data projectors for ICT department
2. \$5,000 spent on PE gear and uniforms

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The Board should choose to benefit our education because this is the best thing that can help us for the future, so should choose the first ranked option. You come to school to learn and help you for your future career, not always for fun like playing sports.