**Survivor**

**Source:** [**http://galileo.org/schools/strathmore/survivor/task.html**](http://galileo.org/schools/strathmore/survivor/task.html)

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**(HS) Student Learning Task:**

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| You are a member of a transplant team. It has been determined that your patient has had a major organ failure due to a disease and that **treatment or a transplant is necessary**. A number of [patient profiles](http://galileo.org/schools/strathmore/survivor/patients.html) have been created for you and you may select from one of them or you may choose to create your own patient profile. (The following organs are appropriate: heart, lungs, liver, kidney, intestine, larynx, blood vessels. Exceptions include: nerves, hand, skin, cornea, bone and marrow.) Your team has been selected to determine the cause of the organ failure, select a new organ, and transplant the new organ. |

**Before your team can proceed with treatment you must create a multimedia presentation that:**

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| describes how the patient's disease impacts her/his quality of life |
| clearly shows the affected organ. You may find some of the graphics and/or 3-D modeling software suitable for creating and manipulating a model of the organ during your presentation. Make sure you label your model and show where the organ is situated in the body. |
| clearly demonstrates and explains the organ's function in supporting life |
| clearly describes and demonstrates the organ's relationship to surrounding organ systems |
| clearly describes and details how this affected organ effects the rest of the body. Make sure that you can clearly articulate this point in your presentation. |
| clearly shows your understanding of the role of the immune system in pathogen protection |
| provides an understanding of how organ transplantation can threaten equilibrium (i.e. use of immuno-suppressant drugs) |
| educates others about the ethical and physiological issues involved in transplants |
| provides evidence to show that you have fully researched and examined all the different treatment or transplant options open to you and provides justification of your selection. |
| looks at some current & ongoing research (Human Genome Project, Cloning, etc.) and speculate on how this research might assist organ transplant or treatment developments in the future |
| describes the dilemmas and issues that you dealt with in selecting a suitable treatment or organ for your patient |
| shows that you have considered the perspectives of the donor’s family, donor’s lifestyle, and the recipient's lifestyle. What are the implications of treatment or organ transplantation on society? |
| provides a reference list of the resources you have used |

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