

TRANSPORT MODELS

Student Names:

Due Date:

This rubric is used to verify specific tasks performed. If the task has been completed, all points are awarded. If the task is incomplete half points may be awarded. No points are awarded if the task is not completed or attempted.

Category	Scoring Criteria	Points	Student Evaluation	Teacher Evaluation
Construction	The model is completed (glue is dry, no parts are broken off or missing)	5		
	The model is constructed in a study manner (pieces do not fall off when it is moved or used)	5		
	The model is visually accurate (a 5 chambered heart should have 5 chambers not 6)	20		
Information	Research references used are listed. (a works cited page in the proper format)	5		
	Information shown in the model is accurate and complete to the best of your ability (all the pieces of the system are there in some way)	25		
Key/ Labels	System structures are identified in an easy to use way (structures are clearly numbered and identified using an attached key)	10		
	Oxygenated and deoxygenated blood is identified	5		
	Identification key is accurate and organized. (Numbers don't jump around but follow the order of flow.)	10		
	The type of system and species are identified. (Ex. Four chambered heart of <i>Homo sapiens</i>)	5		
Group work	All group members were involved in the presentation	10		
Bonus	Functional model with circulating material	15		
Score	Total Points Possible	115	100	
Self-evaluation	If the difference between the student evaluation and the teacher evaluation is less than 5 points, 5 points will be added the teacher's score when the grade is recorded.			
Deadline	Models are due at the start of class on the due date. Models received after that time will lose 15 points per day they are late. Negative grades are possible.			

TRANSPORT MODELS

Working in small groups you will research one of the following organisms transport system:

- Earthworm
- Fish
- Grasshopper
- Human
- Turtle

Your goal will be to construct a three dimensional model of your organism that demonstrates the key structures and their function.

Projects will be used in class as part of a five minute presentation on the structure and function of your organism's circulatory system.

Your Model Must:

1. be three dimensional.
2. be visually accurate within the limits of your artistic abilities.
3. have a key that labels the important parts such as the ventricles, arteries etc.
4. indicate where and how the blood is oxygenated.
5. be constructed in such a manner that they can be moved around and not break.

Bonus:

1. Models that have circulating material in them will be awarded 15 bonus points. This material must follow a path that is similar to the one blood cells would normally take.

Models will be assessed using the rubric included on the back of this page.

Models are due in class on _____

Late or incomplete models will lose 15 points per day.

Negative grades are possible.