

Genetics Menu Student Choice Activities

Benchmarks

name: _____

2. A typical cell of any organism contains genetic instructions that specify its traits. Those traits may be modified by environmental influences. As a basis for understanding this concept:

- a) Students know the differences between the life cycle and reproduction methods of sexual and asexual organisms.
- b) Students know sexual reproduction produces offspring that inherit half their genes from each parent.
- c) Students know an inherited trait can be determined by one or more genes.
- d) Students know plant and animal cells contain many thousands of different genes and typically have two copies of every gene. The two copies (or alleles) of the gene may or may not be identical, and one may be dominant in determining the phenotype while the other is recessive.
- e) Students know DNA (deoxyribonucleic acid) is the genetic material of living organisms and is located in the chromosomes of each cell.
- f) Students know how our understanding of genetics changes over time.

7. Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three strands, students should develop their own questions and perform investigations. Students will:

- b) Use a variety of print and electronic resources (including the World Wide Web) to collect information and evidence as part of a research project.

Appetizer Benchmarks 2b, c, d, e	1. Brochure	2. Poster	3. Advertisement
	<ul style="list-style-type: none"> • Title • Summary of issue • Graphics • Follow Brochure Criteria card 	<ul style="list-style-type: none"> • Title • Summary of issue • Graphics • Follow Poster Criteria card 	<ul style="list-style-type: none"> • Summary of issue • Radio, Magazine, or Billboard • Follow Advertisement Criteria card
Main Course Benchmark 2f (include 2bcd where possible)	4. Required <ul style="list-style-type: none"> • Persuasive Essay on Current Genetic Issue (assessed in Humanities & Science) • Poster or Multimedia Presentation (Powerpoint, Webpage, Photostory, etc) to summarize & support your issue • Visual summary must include pictures to highlight your topic • Oral presentation will be made about your paper/visual presentation. 		
Dessert ALL Benchmarks	5. Multimedia Presentation <ul style="list-style-type: none"> • Follow Multimedia Presentation Criteria card • Must focus on non-proficient benchmarks 	6. Information Cube <ul style="list-style-type: none"> • Follow Information Cube Criteria card • Must focus on non-proficient benchmarks 	7. News video/radio report <ul style="list-style-type: none"> • Follow News Story Criteria Card • Must focus on non-proficient benchmarks

Activity	Date Due	Benchmarks	How Benchmark Met

CRITERIA CARDS

<p>Brochure</p> <ol style="list-style-type: none"> 1. Highlights important points 2. Folded with information on each side 3. Neatly done 4. Visually appealing with pictures 5. Titles correctly spelled 	<p>Poster</p> <ol style="list-style-type: none"> 1. On poster board 2. Legible, neat writing 3. Has visuals about topic 4. Has title and labels 5. Spelling & Grammar 6. Neat with white space
<p>Web Page</p> <ol style="list-style-type: none"> 1. User-friendly format; all links work 2. Aesthetically appealing 3. Credible information 4. Meaning content; useful 5. Rich, multi-leveled informational source 6. Engaging 	<p>Multimedia Presentation</p> <ol style="list-style-type: none"> 1. Variety of media 2. Media competence 3. Clarity 4. Engaging 5. Informative 6. Creativity and /or originality
<p>PowerPoint Presentation</p> <ol style="list-style-type: none"> 1. At least 10 slides 2. Pictures and words are coordinated 3. Technology works correctly 4. Includes some animation 5. Well organized 6. Accurate & informative 	<p>Advertisement</p> <ol style="list-style-type: none"> 1. Content accurate & informative 2. Visual appeal/color 3. Neatness 4. Creativity 5. Engaging 6. Spelling & Grammar
<p>Information Cube</p> <ol style="list-style-type: none"> 1. Cube is sturdy and has six sides 2. Has information on each side of cube 3. Accurate & informative information 4. Neat and visually attractive 	<p>News video/radio report</p> <ol style="list-style-type: none"> 1. Headline 2. Educational/Understandable 3. Who, what, where, when, why, how? 4. Flow of events 5. Clear voice or writing
<p>Oral Presentation / Report</p> <ol style="list-style-type: none"> 1. Clear speaking loud enough for all to hear 2. Good eye contact 3. Uses gestures and visuals 4. Correct timing 5. Limited fidgeting 	<p>Position Paper</p> <ol style="list-style-type: none"> 1. Shows knowledge of topic 2. Position is clear 3. Evidence and resources to support position 4. Correct spelling ,grammar and punctuation 5. Sources cited