4-H STEM Extravaganza 2021
RoboPet Challenge

Robot Performance:

Robotics Team: _____	Judge Names: _____

Food Find: (60 points max)

Robopet travels the length of the habitat (e.g. table)	_____ (+10 points)
Robopet identifies food source and picks up or moves food back to home base	_____ (+30 points)
Robopet completes the food find task within 3 min time limit	_____ (+20 points)

Survival: (50 points max)
Robopet encounters 3D or painted habitat dangers (e.g. obstacles) and…

Sensor activates change in direction	_____ (+10 /obstacle; 30 points max.)
Sensor activates robot arm/grabber/kicker to remove obstacle from path	_____ (+20 /obstacle; 40 points max.)
Robopet uses more than one kind of sensor to navigate the habitat	_____ (+10 points)

RoboPet Design: (50 points max)

Original design, not based on building guide	_____ (+10 points)
Unique use of sensors	_____ (+10 points)
Robopet uses moving appendage (e.g. wing, trunk, tail, ear, head)	_____ (+10 points per appendage, max. 20 points)
Robopet has change in posture that indicates awake/sleep modes	_____ (+10 points)

RoboPet Behavior: (40 points max)

Robopet makes sounds when it is NOT moving	_____ (+10 points)
Robopet makes sounds while moving	_____ (+20 points)

Robopet has unique movement	_____ (+10 points)

Total Points: _____ (200 points max.) Completion Time: _____

COMMENTS:_____
_____
_____
_____