let weight = document.getElementById('weight');

let wUnit = document.getElementById('wUnit');

let age = document.getElementById('age');

let activityLVL = document.getElementById('activityLVL');

let breedSize = document.getElementById('breedSize');

let hAge = document.getElementById('hAge');

let hMCAL = document.getElementById('hMCAL');

let hProtein = document.getElementById('hProtein');

let hExercise = document.getElementById('hExercise');

let calResult = document.getElementById('calResult');

calResult.addEventListener('click', function(event) {

event.preventDefault(); // prevent the form from submitting

// calculate the values and update the result section

let weightValue = Number(weight.value);

let wUnitValue = wUnit.value;

let ageValue = age.value;

let activityLVLValue = activityLVL.value;

let breedSizeValue = breedSize.value;

if (wUnitValue == 'pound') {

weightValue = weightValue \* 0.453592;

}

if (weightValue >= 45 && weightValue <= 1000) {

weight.style.border = '2px solid #888';

} else {

weight.style.border = '2px solid red';

alert('Weights under 100 Lbs (45 KG) or Over 2,200 Lbs (1000 KG) are not allowed');

hAge.innerText = 'X';

hExercise.innerText = 'Y';

hMCAL.innerText = 'Z';

hProtein.innerText = 'N%';

return false;

}

let proteinNeeds = 0;

if (ageValue === 'Yearling') {

hAge.innerText = ageValue;

if (breedSizeValue === 'small') {

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)} - ${(weightValue \* 0.063).toFixed(2)}`;

proteinNeeds = 2.88;

} else {

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)} - ${(weightValue \* 0.063).toFixed(2)}`;

proteinNeeds = 2.88;

}

if (activityLVLValue === 'In training') {

alert('Yearlings are not recommended for training');

return false;

}

} else if (ageValue === '2 year old') {

hAge.innerText = ageValue;

if (activityLVLValue === 'none') {

hMCAL.innerText = `${(weightValue \* 0.042).toFixed(2)}`;

proteinNeeds = 1.8;

} else if (activityLVLValue === 'In training') {

// Do nothing, 2 year olds can be in training

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)}`;

proteinNeeds = 2.3;

} else {

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)}`;

proteinNeeds = 2.3;

}

} else if (ageValue === '3 year old' || ageValue === '4 year old') {

hAge.innerText = ageValue;

if (breedSizeValue === 'small') {

hMCAL.innerText = `${(weightValue \* 0.033).toFixed(2)} - ${(weightValue \* 0.042).toFixed(2)}`;

let proteinNeedsLower = weightValue \* 1.3;

let proteinNeedsUpper = weightValue \* 1.6;

proteinNeeds = `${proteinNeedsLower.toFixed(2)} - ${proteinNeedsUpper.toFixed(2)}`;

} else {

hMCAL.innerText = `${(weightValue \* 0.033).toFixed(2)} - ${(weightValue \* 0.042).toFixed(2)}`;

let proteinNeedsLower = weightValue \* 1.3;

let proteinNeedsUpper = weightValue \* 1.6;

proteinNeeds = `${proteinNeedsLower.toFixed(2)} - ${proteinNeedsUpper.toFixed(2)}`;

}

} else {

alert('Invalid age value');

return false;

}

if (activityLVLValue === 'none') {

hExercise.innerText = 'Not in training';

} else if (activityLVLValue === 'In training') {

hExercise.innerText = activityLVLValue;

if (ageValue === '2 year old') {

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)}`;

proteinNeeds = 2.3;

} else if (ageValue === '3 year old' || ageValue === '4 year old') {

let proteinNeedsLower = weightValue \* 1.3;

let proteinNeedsUpper = weightValue \* 1.6;

proteinNeeds = `${proteinNeedsLower.toFixed(2)} - ${proteinNeedsUpper.toFixed(2)}`;

if (breedSizeValue === 'small') {

hMCAL.innerText = `${(weightValue \* 0.055).toFixed(2)}`;

} else {

hMCAL.innerText = `${(weightValue \* 0.042).toFixed(2)}`;

}

} else {

alert('Yearlings and horses over 2 years old in training have different nutritional needs');

return false;

}

}

if (ageValue === '3 year old' || ageValue === '4 year old') {

hProtein.innerText = `${proteinNeeds} g per day`;

} else {

hProtein.innerText = `${(proteinNeeds \* weightValue).toFixed(2)} g per day`;

}

});