

Water moves from hypotonic into hypertonic.

TAG ADU
104 / 98
packet

Names: Key

Period: _____

Date: _____

Osmosis Worksheet

Egg: corn syrup: hypertonic
pure H₂O: hypotonic

Below are animal cells placed in beakers of various concentrations.

1. Draw an arrow to show which way the water would move by osmosis
2. Fill in any missing percentages (water or solute)
3. Identify the type of solution (isotonic, hypertonic, or hypotonic)

90% H₂O
10% solute

hypotonic

hypertonic

85% H₂O
15% solute

40% H₂O
60% solute

hypotonic

90% H₂O
10% solute

75% H₂O
25% solute

Hypotonic

80% H₂O
20% solute

45% H₂O
55% solute

Hypotonic

75% H₂O
25% solute

90% H₂O
10% solute

Hypertonic

63% H₂O
37% solute

50% H₂O
50% solute

isotonic

50% H₂O
50% solute

equilibrium

90% H₂O
10% solute

isotonic

90% H₂O
10% solute

82% H₂O
18% solute

Hypertonic

25% H₂O
75% solute

90% H₂O
10% solute

hypertonic

80% H₂O
20% solute

dynamic equilibrium

dynamic equilibrium

hypotonic = more water + less solute
hypertonic = less water + more solute

90% H₂O
10% solute
↓
hypertonic
80% H₂O
20% solute

60% H₂O
40% solute
↑↑
hypotonic
70% H₂O
30% solute

75% H₂O
25% solute
↑
hypotonic
80% H₂O
20% solute

57% H₂O
43% solute
↓
hypertonic
40% H₂O
60% solute

60% H₂O
40% solute
↑
hypotonic
80% H₂O
20% solute

90% H₂O
10% solute
↑ ↓
isotonic
90% H₂O
10% solute

85% H₂O
15% solute
↓
hypertonic
80% H₂O
20% solute

61% H₂O
39% solute
↑
hypotonic
80% H₂O
20% solute

90% H₂O
10% solute
↓
hypertonic
35% H₂O
65% solute